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Aqueous Ammonia Equilibrium—Tabulation of Percent Un-Ionized Ammonia

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AQUEOUS AMMONIA EQUILIBRIUM - TABULATION OF PERCENT UN-IONIZED AMMONIA

by

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FOREWORD

Our nation's freshwaters are vital for all animals and plants, yet our diverse uses of water---for recreation, food, energy, transportation, and industry---physically and chemically alter lakes, rivers, and streams. Such alterations threaten terrestrial organisms, as well as those living in water. The Environmental Research Laboratory in Duluth, Minnesota develops methods, conducts laboratory and field studies, and extrapolates research findings

--to determine how physical and chemical pollution affects aquatic life

--to assess the effects of ecosystems on pollutants

--to predict effects of pollutants on large lakes through use of models

--to measure bioaccumulation of pollutants in aquatic organisms that are consumed by other animals, including man.

This report is part of a larger study undertaken to describe the acute and chronic toxicity of ammonia to aquatic organisms. Ammonia is a ubiquitous chemical substance in the environment because it is part of the nitrogen biogeochemical cycle. Nitrogen is an essential element and constituent of all living organisms. Ammonia is a biologically active compound present in most waters as a normal biological degradation product of nitrogenous organic matter. It may reach ground or surface waters as a byproduct of industrial waste, organic wastes or agricultural or domestic sources, or land run-off from non-point sources. When ammonia or ammonia salts dissolve in water, a chemical equilibrium is established which contains un-ionized ammonia (NH_3), the ammonium ion (NH_4^+), and hydroxide ion (OH^-). In order to describe accurately the concentration of the different forms of ammonia and their relative biological activity, this report describes the aqueous ammonia equilibrium at zero salinity and tabulates the percent unionized ammonia as a function of pH and temperature.

J. David Yount, Ph.D.
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ABSTRACT

The percent of un-ionized ammonia as a function of pH and temperature in aqueous ammonia solutions of zero salinity is presented in tabular form over the following ranges: temperature 0.0 to 40.0 C in increments of 0.2 degree, and pH 5.00 to 12.00 in increments of 0.01 pH unit.

This report was submitted in fulfillment of Grant No. R-800861 by the Fisheries Bioassay Laboratory, Montana State University, Bozeman, under the sponsorship of the U.S. Environmental Protection Agency. This report covers a grant period from January 1, 1971 to December 31, 1975 and the final report was completed as of June, 1979. Interim funding has been received under EPA Grant Nos. R-805636 and R-803950.

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SECTION I

INTRODUCTION

Ammonia, when dissolved in water, exists in both an un-ionized form (NH_3), and in an ionized form (NH_4+). This relationship is principally a function of the pH, temperature, and ionic strength of the aqueous solution. The equation expressing the aqueous ammonia equilibrium can be written as

$$NH_{3(g)} + nH_2O_{(\ell)} \rightleftarrows NH_3 \cdot nH_2O_{(aq)} \rightleftarrows NH_4^{+} + OH^{-} + (n-1)H_2O_{(\ell)}.$$

As indicated in this equation, the dissolved ammonia molecule exists in hydrated form; it is hydrogen-bonded to at least three water molecules (Butler 1964).

Research by Chipman (1934), Wuhrmann et al. (1947), and Wuhrmann and Woker (1948) has established that the NH_3 species of total aqueous ammonia is relatively more toxic than the NH_4+ species. Based on this and other research, a water quality criterion of 0.02 mg/liter NH_3 has been established by the U.S. Environmental Protection Agency (1977) to protect freshwater aquatic life. There is at present no Environmental Protection Agency criterion for NH_4+ or for total ammonia.

Tabata (1962) has attributed toxicity to fishes and aquatic invertebrates to the NH_4+ fraction as well as to the NH_3 fraction, and has estimated NH_4+ to be perhaps 1/50th as toxic as NH_3. More recently, Armstrong et al. (1978) have reported the toxicity of NH_4+ to be greater than that reported by Tabata, under the conditions of their tests on prawn (*Macrobrachium rosenbergii*) larvae. Experiments conducted on fishes in our laboratory (unpublished data) also indicate that the toxicity of the NH_4+ species and/or the effect of pH on the toxicity of NH_3 is greater than previously reported in the literature.

Regardless of the relative toxicity of these two chemical species, an exact understanding of their aqueous equilibrium relationship is essential. A number of analytical methods are available for direct determination of total ammonia concentrations in aqueous solutions. NH_3 may be measured directly by a selective membrane probe, although the lower limit of detection by commercially available probes is on the order of 10^{-6} M, which is above the NH_3 concentration of most natural water systems. If the pH of the solution measured is altered to facilitate measurement of NH_3, the original composition must be computed; if total ammonia is measured, NH_3 must be computed. Either way, the percent of total ammonia initially present as NH_3 or as NH_4+ must be determined by calculation based on the ammonia-water equilibrium at the original pH and temperature.

Analysis of data generated in our studies on the toxicity of ammonia to fishes and aquatic invertebrates created a need for the best possible data on the equilibrium relationship between NH_3 and NH_4^+. We therefore conducted a critical evaluation of the literature data on the ammonia-water equilibrium system and developed equations for calculation of pK_a as a function of temperature and of percent NH_3 and NH_4^+ for total ammonia solutions as a function of pH and temperature. Results of our evaluation have already been discussed in detail elsewhere (Thurston et al. 1974; Emerson et al. 1975). The purpose of the present report is to provide water pollution workers with a reference table of percent un-ionized ammonia values based on the results of the previously published research, and at smaller increments of pH and temperature than in other abbreviated tables provided in our previous publications.

SECTION II

CALCULATION OF PERCENT UN-IONIZED AMMONIA

To calculate the temperature dependence of the pK for NH_3, and to calculate the fraction of NH_3, we used the equations from Emerson et al. (1975). Values of the NH_3 fraction, expressed as percentage of total ammonia, are listed in Table A-1 at temperature intervals of 0.2 degree from 0.0 to 40.0 C, and pH intervals of 0.01 pH unit from pH 5.00 to 12.00. If percent NH_3 values for smaller increments of temperature within the range reported are desired, these can readily be linearly interpolated from Table A-1. It should be noted by users of Table A-1 that the equation used for pK_a is invalid outside the temperature range 0 to 50 C because it was obtained empirically. Extrapolations to temperatures above 50 C or below 0 C should not be made.

It should also be noted that, although pH and temperature are the most important factors which determine the percentage of total ammonia in either the ionized or un-ionized form, ionic strength is another important influence on this equilibrium. There is a decrease in the percentage of un-ionized ammonia as the ionic strength increases in hard water or in dilute saline solution. In most natural freshwater systems, even up to 200-300 mg/liter dissolved solids, the reduction of percent NH_3 attributable to dissolved solids is negligible. In more saline or very hard waters there will be small but significant decreases in the percent NH_3; these cannot be readily calculated or derived from the data presented here.

SECTION III

PROCEDURE FOR USE OF THE PERCENT UN-IONIZED AMMONIA TABLE

Concentrations of ammonia have been reported in the literature as a variety of different forms, such as NH_3, NH_4+, NH_3-N, NH_4OH, NH_4Cl, and others. Standard analytical methods for determining ammonia measure total ammonia, often referred to as the "analytical concentration" of ammonia. If the total ammonia concentration is expressed in one form and you wish to convert it to some other desired form, you can always do so by multiplying the expressed value by the ratio of the formula weight (F.W.) of the desired form over the formula weight of the expressed form; i.e.,

$$\text{Concentration as expressed form} \times \frac{\text{F.W. of desired form}}{\text{F.W. of expressed form}} = \text{Concentration as desired form.}$$

Several examples of these conversion factors, to convert total ammonia in one form to total ammonia in another form, are given below; to convert from the expressed form to the desired form, multiply the expressed form by the conversion factor.

Total Ammonia Expressed Form (F.W.)	Total Ammonia Desired Form (F.W.)	Conversion Factor
NH_3-N (14.0)	NH_3 (17.0)	17/14
NH_4+ (18.0)	NH_3 (17.0)	17/18
NH_4+ (18.0)	NH_3-N (14.0)	14/18
NH_4OH (35.0)	NH_3-N (14.0)	14/35
NH_4Cl (53.5)	NH_3 (17.0)	17/53.5

Table A-1 gives the percent of the total ammonia concentration which is present as un-ionized ammonia at the desired temperature and pH. The table may be used with any units which express the total ammonia concentration as weight per unit volume; examples are mg/liter, grains/gallon, ppm. Given the total ammonia concentration, temperature, and pH, multiply the total ammonia concentration by the appropriate fraction (percent/100) taken from Table A-1. The un-ionized ammonia concentration obtained will be in the same form and units as the total ammonia concentration.

Example 1. Suppose the total ammonia concentration, expressed as NH_3, is 12.0 mg/liter at a pH of 7.80 and a temperature of 13.0 C. What is the concentration of un-ionized ammonia, expressed as NH_3, under these conditions?

Solution: From Table A-1 the percent of un-ionized ammonia at the pH and temperature is 1.52. Hence the concentration of un-ionized ammonia as NH_3 is

$$12.0 \text{ mg/}\ell \times 0.0152 = 0.182 \text{ mg/}\ell$$

Example 2. Suppose the total ammonia concentration, expressed as NH_4Cl, is 8.50 mg/liter, at a pH of 6.90 and a temperature of 18.0 C. What is the concentration of un-ionized ammonia expressed as NH_3?

Solution: To convert from mg/liter NH_4Cl to mg/liter NH_3, multiply by the factor 17/53.5 (see example in conversion table above). The percent of un-ionized ammonia is obtained from Table A-1 as before; in this case it is 0.272. The result is then

$$8.50 \text{ mg/}\ell \times 17/53.5 \times 0.00272 = 0.00735 \text{ mg/}\ell \text{ un-ionized ammonia as } NH_3.$$

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APPENDIX

Table A-1. Percent un-ionized NH_3 as a function of pH and temperature.

TABLE A-1. PERCENT UN-IONIZED NH_3 AS A FUNCTION OF pH AND TEMPERATURE. TABLE PAGE 1

TEMP DEG C	PH 5.00	5.01	5.02	5.03	5.04	5.05	5.06	5.07	5.08	5.09	5.10
.0	.00083	.00085	.00087	.00089	.00091	.00093	.00095	.00097	.00099	.00102	.00104
.2	.00084	.00086	.00088	.00090	.00092	.00094	.00097	.00099	.00101	.00103	.00106
.4	.00086	.00088	.00090	.00092	.00094	.00096	.00098	.00100	.00103	.00105	.00108
.6	.00087	.00089	.00091	.00093	.00095	.00098	.00100	.00102	.00105	.00107	.00109
.8	.00088	.00090	.00093	.00095	.00097	.00099	.00102	.00104	.00106	.00109	.00111
1.0	.00090	.00092	.00094	.00096	.00099	.00101	.00103	.00106	.00108	.00111	.00113
1.2	.00091	.00094	.00096	.00098	.00100	.00103	.00105	.00107	.00110	.00112	.00115
1.4	.00093	.00095	.00097	.00100	.00102	.00104	.00107	.00109	.00112	.00114	.00117
1.6	.00095	.00097	.00099	.00101	.00104	.00106	.00109	.00111	.00114	.00116	.00119
1.8	.00096	.00098	.00101	.00103	.00105	.00108	.00110	.00113	.00116	.00118	.00121
2.0	.00098	.00100	.00102	.00105	.00107	.00110	.00112	.00115	.00117	.00120	.00123
2.2	.00099	.00102	.00104	.00106	.00109	.00111	.00114	.00117	.00119	.00122	.00125
2.4	.00101	.00103	.00106	.00108	.00111	.00113	.00116	.00119	.00121	.00124	.00127
2.6	.00103	.00105	.00108	.00110	.00113	.00115	.00118	.00121	.00123	.00126	.00129
2.8	.00104	.00107	.00109	.00112	.00114	.00117	.00120	.00123	.00126	.00128	.00131
3.0	.00106	.00109	.00111	.00114	.00116	.00119	.00122	.00125	.00128	.00131	.00134
3.2	.00108	.00110	.00113	.00116	.00118	.00121	.00124	.00127	.00130	.00133	.00136
3.4	.00110	.00112	.00115	.00118	.00120	.00123	.00126	.00129	.00132	.00135	.00138
3.6	.00112	.00114	.00117	.00119	.00122	.00125	.00128	.00131	.00134	.00137	.00140
3.8	.00113	.00116	.00119	.00121	.00124	.00127	.00130	.00133	.00136	.00139	.00143
4.0	.00115	.00118	.00121	.00123	.00126	.00129	.00132	.00135	.00139	.00142	.00145
4.2	.00117	.00120	.00123	.00126	.00128	.00131	.00134	.00138	.00141	.00144	.00147
4.4	.00119	.00122	.00125	.00128	.00131	.00134	.00137	.00140	.00143	.00146	.00150
4.6	.00121	.00124	.00127	.00130	.00133	.00136	.00139	.00142	.00145	.00149	.00152
4.8	.00123	.00126	.00129	.00132	.00135	.00138	.00141	.00145	.00148	.00151	.00155
5.0	.00125	.00128	.00131	.00134	.00137	.00140	.00144	.00147	.00150	.00154	.00157
5.2	.00127	.00130	.00133	.00136	.00139	.00143	.00146	.00149	.00153	.00156	.00160
5.4	.00129	.00132	.00135	.00138	.00142	.00145	.00148	.00152	.00155	.00159	.00163
5.6	.00131	.00134	.00137	.00141	.00144	.00147	.00151	.00154	.00158	.00161	.00165
5.8	.00133	.00136	.00140	.00143	.00146	.00150	.00153	.00157	.00160	.00164	.00168
6.0	.00136	.00139	.00142	.00145	.00149	.00152	.00156	.00159	.00163	.00167	.00171
6.2	.00138	.00141	.00144	.00148	.00151	.00155	.00158	.00162	.00166	.00169	.00173
6.4	.00140	.00143	.00147	.00150	.00153	.00157	.00161	.00164	.00168	.00172	.00176
6.6	.00142	.00146	.00149	.00152	.00156	.00160	.00163	.00167	.00171	.00175	.00179
6.8	.00145	.00148	.00151	.00155	.00159	.00162	.00166	.00170	.00174	.00178	.00182
7.0	.00147	.00150	.00154	.00157	.00161	.00165	.00169	.00173	.00177	.00181	.00185

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.00	5.01	5.02	5.03	5.04	5.05	5.06	5.07	5.08	5.09	5.10
7.0	.00147	.00150	.00154	.00157	.00161	.00165	.00169	.00173	.00177	.00181	.00185
7.2	.00149	.00153	.00156	.00160	.00164	.00167	.00171	.00175	.00179	.00184	.00188
7.4	.00152	.00155	.00159	.00163	.00166	.00170	.00174	.00178	.00182	.00187	.00191
7.6	.00154	.00158	.00161	.00165	.00169	.00173	.00177	.00181	.00185	.00190	.00194
7.8	.00157	.00160	.00164	.00168	.00172	.00176	.00180	.00184	.00188	.00193	.00197
8.0	.00159	.00163	.00167	.00170	.00174	.00178	.00183	.00187	.00191	.00196	.00200
8.2	.00162	.00165	.00169	.00173	.00177	.00181	.00186	.00190	.00194	.00199	.00203
8.4	.00164	.00168	.00172	.00176	.00180	.00184	.00189	.00193	.00197	.00202	.00207
8.6	.00167	.00171	.00175	.00179	.00183	.00187	.00192	.00196	.00201	.00205	.00210
8.8	.00170	.00173	.00177	.00182	.00186	.00190	.00195	.00199	.00204	.00209	.00213
9.0	.00172	.00176	.00180	.00185	.00189	.00193	.00198	.00202	.00207	.00212	.00217
9.2	.00175	.00179	.00183	.00187	.00192	.00196	.00201	.00206	.00210	.00215	.00220
9.4	.00178	.00182	.00186	.00190	.00195	.00199	.00204	.00209	.00214	.00219	.00224
9.6	.00181	.00185	.00189	.00193	.00198	.00203	.00207	.00212	.00217	.00222	.00227
9.8	.00183	.00188	.00192	.00197	.00201	.00206	.00211	.00215	.00220	.00226	.00231
10.0	.00186	.00191	.00195	.00200	.00204	.00209	.00214	.00219	.00224	.00229	.00235
10.2	.00189	.00194	.00198	.00203	.00207	.00212	.00217	.00222	.00227	.00233	.00238
10.4	.00192	.00197	.00201	.00206	.00211	.00216	.00221	.00226	.00231	.00236	.00242
10.6	.00195	.00200	.00204	.00209	.00214	.00219	.00224	.00229	.00235	.00240	.00246
10.8	.00198	.00203	.00208	.00212	.00217	.00222	.00228	.00233	.00238	.00244	.00250
11.0	.00201	.00206	.00211	.00216	.00221	.00226	.00231	.00237	.00242	.00248	.00254
11.2	.00205	.00209	.00214	.00219	.00224	.00230	.00235	.00240	.00246	.00252	.00258
11.4	.00208	.00213	.00218	.00223	.00228	.00233	.00239	.00244	.00250	.00256	.00262
11.6	.00211	.00216	.00221	.00226	.00231	.00237	.00242	.00248	.00254	.00260	.00266
11.8	.00214	.00219	.00224	.00230	.00235	.00240	.00246	.00252	.00258	.00264	.00270
12.0	.00218	.00223	.00228	.00233	.00239	.00244	.00250	.00256	.00262	.00268	.00274
12.2	.00221	.00226	.00231	.00237	.00242	.00248	.00254	.00260	.00266	.00272	.00278
12.4	.00224	.00230	.00235	.00241	.00246	.00252	.00258	.00264	.00270	.00276	.00283
12.6	.00228	.00233	.00239	.00244	.00250	.00256	.00262	.00268	.00274	.00280	.00287
12.8	.00231	.00237	.00242	.00248	.00254	.00260	.00266	.00272	.00278	.00285	.00291
13.0	.00235	.00241	.00246	.00252	.00258	.00264	.00270	.00276	.00283	.00289	.00296
13.2	.00239	.00244	.00250	.00256	.00262	.00268	.00274	.00280	.00287	.00294	.00301
13.4	.00242	.00248	.00254	.00260	.00266	.00272	.00278	.00285	.00291	.00298	.00305
13.6	.00246	.00252	.00258	.00264	.00270	.00276	.00283	.00289	.00296	.00303	.00310
13.8	.00250	.00256	.00262	.00268	.00274	.00280	.00287	.00294	.00300	.00307	.00315
14.0	.00254	.00260	.00266	.00272	.00278	.00285	.00291	.00298	.00305	.00312	.00319

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.00	5.01	5.02	5.03	5.04	5.05	5.06	5.07	5.08	5.09	5.10
14.0	.00254	.00260	.00266	.00272	.00278	.00285	.00291	.00298	.00305	.00312	.00319
14.2	.00258	.00264	.00270	.00276	.00282	.00289	.00296	.00303	.00310	.00317	.00324
14.4	.00262	.00268	.00274	.00280	.00287	.00294	.00300	.00307	.00314	.00322	.00329
14.6	.00266	.00272	.00278	.00285	.00291	.00298	.00305	.00312	.00319	.00327	.00334
14.8	.00270	.00276	.00282	.00289	.00296	.00303	.00310	.00317	.00324	.00332	.00339
15.0	.00274	.00280	.00287	.00293	.00300	.00307	.00314	.00322	.00329	.00337	.00345
15.2	.00278	.00284	.00291	.00298	.00305	.00312	.00319	.00327	.00334	.00342	.00350
15.4	.00282	.00289	.00295	.00302	.00309	.00317	.00324	.00332	.00339	.00347	.00355
15.6	.00286	.00293	.00300	.00307	.00314	.00321	.00329	.00337	.00344	.00352	.00361
15.8	.00291	.00298	.00305	.00312	.00319	.00326	.00334	.00342	.00350	.00358	.00366
16.0	.00295	.00302	.00309	.00316	.00324	.00331	.00339	.00347	.00355	.00363	.00372
16.2	.00300	.00307	.00314	.00321	.00329	.00336	.00344	.00352	.00360	.00369	.00377
16.4	.00304	.00311	.00319	.00326	.00334	.00341	.00349	.00357	.00366	.00374	.00383
16.6	.00309	.00316	.00323	.00331	.00339	.00346	.00355	.00363	.00371	.00380	.00389
16.8	.00313	.00321	.00328	.00336	.00344	.00352	.00360	.00368	.00377	.00386	.00395
17.0	.00318	.00326	.00333	.00341	.00349	.00357	.00365	.00374	.00383	.00391	.00401
17.2	.00323	.00330	.00338	.00346	.00354	.00362	.00371	.00379	.00388	.00397	.00407
17.4	.00328	.00335	.00343	.00351	.00359	.00368	.00376	.00385	.00394	.00403	.00413
17.6	.00333	.00340	.00348	.00356	.00365	.00373	.00382	.00391	.00400	.00409	.00419
17.8	.00338	.00346	.00354	.00362	.00370	.00379	.00388	.00397	.00406	.00415	.00425
18.0	.00343	.00351	.00359	.00367	.00376	.00385	.00393	.00403	.00412	.00422	.00431
18.2	.00348	.00356	.00364	.00373	.00381	.00390	.00399	.00409	.00418	.00428	.00438
18.4	.00353	.00361	.00370	.00378	.00387	.00396	.00405	.00415	.00424	.00434	.00444
18.6	.00358	.00367	.00375	.00384	.00393	.00402	.00411	.00421	.00431	.00441	.00451
18.8	.00364	.00372	.00381	.00390	.00399	.00408	.00417	.00427	.00437	.00447	.00458
19.0	.00369	.00378	.00386	.00395	.00405	.00414	.00424	.00434	.00444	.00454	.00465
19.2	.00374	.00383	.00392	.00401	.00411	.00420	.00430	.00440	.00450	.00461	.00471
19.4	.00380	.00389	.00398	.00407	.00417	.00426	.00436	.00446	.00457	.00467	.00478
19.6	.00386	.00395	.00404	.00413	.00423	.00433	.00443	.00453	.00464	.00474	.00485
19.8	.00391	.00400	.00410	.00419	.00429	.00439	.00449	.00460	.00470	.00481	.00493
20.0	.00397	.00406	.00416	.00425	.00435	.00446	.00456	.00467	.00477	.00489	.00500
20.2	.00403	.00412	.00422	.00432	.00442	.00452	.00463	.00473	.00484	.00496	.00507
20.4	.00409	.00418	.00428	.00438	.00448	.00459	.00469	.00480	.00492	.00503	.00515
20.6	.00415	.00425	.00434	.00445	.00455	.00465	.00476	.00487	.00499	.00510	.00522
20.8	.00421	.00431	.00441	.00451	.00462	.00472	.00483	.00495	.00506	.00518	.00530
21.0	.00427	.00437	.00447	.00458	.00468	.00479	.00490	.00502	.00513	.00525	.00538

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.00	5.01	5.02	5.03	5.04	5.05	5.06	5.07	5.08	5.09	5.10
21.0	.00427	.00437	.00447	.00458	.00468	.00479	.00490	.00502	.00513	.00525	.00538
21.2	.00433	.00443	.00454	.00464	.00475	.00486	.00498	.00509	.00521	.00533	.00546
21.4	.00440	.00450	.00460	.00471	.00482	.00493	.00505	.00517	.00529	.00541	.00553
21.6	.00446	.00456	.00467	.00478	.00489	.00500	.00512	.00524	.00536	.00549	.00562
21.8	.00453	.00463	.00474	.00485	.00496	.00508	.00520	.00532	.00544	.00557	.00570
22.0	.00459	.00470	.00481	.00492	.00503	.00515	.00527	.00539	.00552	.00565	.00578
22.2	.00466	.00477	.00488	.00499	.00511	.00523	.00535	.00547	.00560	.00573	.00586
22.4	.00473	.00484	.00495	.00506	.00518	.00530	.00543	.00555	.00568	.00581	.00595
22.6	.00479	.00491	.00502	.00514	.00526	.00538	.00550	.00563	.00576	.00590	.00604
22.8	.00486	.00498	.00509	.00521	.00533	.00546	.00558	.00571	.00585	.00598	.00612
23.0	.00493	.00505	.00517	.00529	.00541	.00554	.00566	.00580	.00593	.00607	.00621
23.2	.00500	.00512	.00524	.00536	.00549	.00562	.00575	.00588	.00602	.00616	.00630
23.4	.00508	.00519	.00532	.00544	.00557	.00570	.00583	.00596	.00610	.00625	.00639
23.6	.00515	.00527	.00539	.00552	.00565	.00578	.00591	.00605	.00619	.00634	.00648
23.8	.00522	.00535	.00547	.00560	.00573	.00586	.00600	.00614	.00628	.00643	.00658
24.0	.00530	.00542	.00555	.00568	.00581	.00594	.00608	.00623	.00637	.00652	.00667
24.2	.00537	.00550	.00563	.00576	.00589	.00603	.00617	.00631	.00646	.00661	.00677
24.4	.00545	.00558	.00571	.00584	.00598	.00612	.00626	.00640	.00655	.00671	.00686
24.6	.00553	.00566	.00579	.00592	.00606	.00620	.00635	.00650	.00665	.00680	.00696
24.8	.00561	.00574	.00587	.00601	.00615	.00629	.00644	.00659	.00674	.00690	.00706
25.0	.00569	.00582	.00596	.00609	.00624	.00638	.00653	.00668	.00684	.00700	.00716
25.2	.00577	.00590	.00604	.00618	.00633	.00647	.00662	.00678	.00694	.00710	.00726
25.4	.00585	.00599	.00613	.00627	.00642	.00656	.00672	.00687	.00703	.00720	.00737
25.6	.00593	.00607	.00621	.00636	.00651	.00666	.00681	.00697	.00713	.00730	.00747
25.8	.00602	.00616	.00630	.00645	.00660	.00675	.00691	.00707	.00723	.00740	.00758
26.0	.00610	.00625	.00639	.00654	.00669	.00685	.00701	.00717	.00734	.00751	.00768
26.2	.00619	.00633	.00648	.00663	.00679	.00694	.00711	.00727	.00744	.00761	.00779
26.4	.00628	.00642	.00657	.00673	.00688	.00704	.00721	.00737	.00755	.00772	.00790
26.6	.00636	.00651	.00666	.00682	.00698	.00714	.00731	.00748	.00765	.00783	.00801
26.8	.00645	.00660	.00676	.00692	.00708	.00724	.00741	.00758	.00776	.00794	.00813
27.0	.00655	.00670	.00685	.00701	.00718	.00734	.00751	.00769	.00787	.00805	.00824
27.2	.00664	.00679	.00695	.00711	.00728	.00745	.00762	.00780	.00798	.00817	.00836
27.4	.00673	.00689	.00705	.00721	.00738	.00755	.00773	.00791	.00809	.00828	.00847
27.6	.00682	.00698	.00715	.00731	.00748	.00766	.00784	.00802	.00820	.00840	.00859
27.8	.00692	.00708	.00725	.00741	.00759	.00776	.00794	.00813	.00832	.00851	.00871
28.0	.00702	.00718	.00735	.00752	.00769	.00787	.00806	.00824	.00844	.00863	.00883

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.00	5.01	5.02	5.03	5.04	5.05	5.06	5.07	5.08	5.09	5.10
28.0	.00702	.00718	.00735	.00752	.00769	.00787	.00806	.00824	.00844	.00863	.00883
28.2	.00711	.00728	.00745	.00762	.00780	.00798	.00817	.00836	.00855	.00875	.00896
28.4	.00721	.00738	.00755	.00773	.00791	.00809	.00828	.00847	.00867	.00887	.00908
28.6	.00731	.00748	.00766	.00784	.00802	.00821	.00840	.00859	.00879	.00900	.00921
28.8	.00741	.00759	.00776	.00795	.00813	.00832	.00851	.00871	.00891	.00912	.00933
29.0	.00752	.00769	.00787	.00806	.00824	.00843	.00863	.00883	.00904	.00925	.00946
29.2	.00762	.00780	.00798	.00817	.00836	.00855	.00875	.00895	.00916	.00938	.00960
29.4	.00773	.00791	.00809	.00828	.00847	.00867	.00887	.00908	.00929	.00951	.00973
29.6	.00783	.00802	.00820	.00839	.00859	.00879	.00899	.00920	.00942	.00964	.00986
29.8	.00794	.00813	.00832	.00851	.00871	.00891	.00912	.00933	.00955	.00977	.01000
30.0	.00805	.00824	.00843	.00863	.00883	.00903	.00924	.00946	.00968	.00991	.01014
30.2	.00816	.00835	.00855	.00875	.00895	.00916	.00937	.00959	.00981	.01004	.01028
30.4	.00827	.00847	.00866	.00887	.00907	.00928	.00950	.00972	.00995	.01018	.01042
30.6	.00839	.00858	.00878	.00899	.00920	.00941	.00963	.00985	.01008	.01032	.01056
30.8	.00850	.00870	.00890	.00911	.00932	.00954	.00976	.00999	.01022	.01046	.01070
31.0	.00862	.00882	.00903	.00924	.00945	.00967	.00990	.01013	.01036	.01060	.01085
31.2	.00874	.00894	.00915	.00936	.00958	.00980	.01003	.01026	.01050	.01075	.01100
31.4	.00886	.00906	.00927	.00949	.00971	.00994	.01017	.01040	.01065	.01090	.01115
31.6	.00898	.00919	.00940	.00962	.00984	.01007	.01031	.01055	.01079	.01104	.01130
31.8	.00910	.00931	.00953	.00975	.00998	.01021	.01045	.01069	.01094	.01119	.01145
32.0	.00922	.00944	.00966	.00988	.01011	.01035	.01059	.01084	.01109	.01135	.01161
32.2	.00935	.00957	.00979	.01002	.01025	.01049	.01073	.01098	.01124	.01150	.01177
32.4	.00947	.00970	.00992	.01015	.01039	.01063	.01088	.01113	.01139	.01166	.01193
32.6	.00960	.00983	.01006	.01029	.01053	.01077	.01103	.01128	.01155	.01181	.01209
32.8	.00973	.00996	.01019	.01043	.01067	.01092	.01117	.01143	.01170	.01197	.01225
33.0	.00986	.01009	.01033	.01057	.01082	.01107	.01133	.01159	.01186	.01214	.01242
33.2	.01000	.01023	.01047	.01071	.01096	.01122	.01148	.01175	.01202	.01230	.01259
33.4	.0101	.0104	.0106	.0109	.0111	.0114	.0116	.0119	.0122	.0125	.0128
33.6	.0103	.0105	.0108	.0110	.0113	.0115	.0118	.0121	.0123	.0126	.0129
33.8	.0104	.0106	.0109	.0112	.0114	.0117	.0119	.0122	.0125	.0128	.0131
34.0	.0105	.0108	.0110	.0113	.0116	.0118	.0121	.0124	.0127	.0130	.0133
34.2	.0107	.0109	.0112	.0115	.0117	.0120	.0123	.0126	.0128	.0131	.0135
34.4	.0108	.0111	.0113	.0116	.0119	.0122	.0124	.0127	.0130	.0133	.0136
34.6	.0110	.0112	.0115	.0118	.0120	.0123	.0126	.0129	.0132	.0135	.0138
34.8	.0111	.0114	.0116	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140
35.0	.0113	.0115	.0118	.0121	.0124	.0126	.0129	.0132	.0135	.0139	.0142

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.00	5.01	5.02	5.03	5.04	5.05	5.06	5.07	5.08	5.09	5.10
35.0	.0113	.0115	.0118	.0121	.0124	.0126	.0129	.0132	.0135	.0139	.0142
35.2	.0114	.0117	.0120	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0144
35.4	.0116	.0118	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0146
35.6	.0117	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0144	.0148
35.8	.0119	.0122	.0124	.0127	.0130	.0133	.0136	.0140	.0143	.0146	.0150
36.0	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0145	.0148	.0152
36.2	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0143	.0147	.0150	.0154
36.4	.0124	.0126	.0129	.0132	.0135	.0139	.0142	.0145	.0149	.0152	.0156
36.6	.0125	.0128	.0131	.0134	.0137	.0140	.0144	.0147	.0151	.0154	.0158
36.8	.0127	.0130	.0133	.0136	.0139	.0142	.0146	.0149	.0153	.0156	.0160
37.0	.0129	.0132	.0135	.0138	.0141	.0144	.0148	.0151	.0155	.0158	.0162
37.2	.0130	.0133	.0136	.0140	.0143	.0146	.0150	.0153	.0157	.0160	.0164
37.4	.0132	.0135	.0138	.0141	.0145	.0148	.0151	.0155	.0159	.0162	.0166
37.6	.0134	.0137	.0140	.0143	.0147	.0150	.0153	.0157	.0161	.0164	.0168
37.8	.0135	.0139	.0142	.0145	.0148	.0152	.0155	.0159	.0163	.0167	.0170
38.0	.0137	.0140	.0144	.0147	.0150	.0154	.0157	.0161	.0165	.0169	.0173
38.2	.0139	.0142	.0146	.0149	.0152	.0156	.0160	.0163	.0167	.0171	.0175
38.4	.0141	.0144	.0147	.0151	.0154	.0158	.0162	.0165	.0169	.0173	.0177
38.6	.0143	.0146	.0149	.0153	.0156	.0160	.0164	.0168	.0171	.0175	.0180
38.8	.0144	.0148	.0151	.0155	.0158	.0162	.0166	.0170	.0174	.0178	.0182
39.0	.0146	.0150	.0153	.0157	.0160	.0164	.0168	.0172	.0176	.0180	.0184
39.2	.0148	.0152	.0155	.0159	.0163	.0166	.0170	.0174	.0178	.0182	.0187
39.4	.0150	.0154	.0157	.0161	.0165	.0168	.0172	.0176	.0181	.0185	.0189
39.6	.0152	.0156	.0159	.0163	.0167	.0171	.0175	.0179	.0183	.0187	.0191
39.8	.0154	.0158	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0190	.0194
40.0	.0156	.0160	.0163	.0167	.0171	.0175	.0179	.0183	.0188	.0192	.0196

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.10	5.11	5.12	5.13	5.14	5.15	5.16	5.17	5.18	5.19	5.20
.0	.00104	.00107	.00109	.00112	.00114	.00117	.00120	.00122	.00125	.00128	.00131
.2	.00106	.00108	.00111	.00113	.00116	.00119	.00122	.00124	.00127	.00130	.00133
.4	.00108	.00110	.00113	.00115	.00118	.00121	.00124	.00126	.00129	.00132	.00136
.6	.00109	.00112	.00115	.00117	.00120	.00123	.00126	.00129	.00132	.00135	.00138
.8	.00111	.00114	.00117	.00119	.00122	.00125	.00128	.00131	.00134	.00137	.00140
1.0	.00113	.00116	.00119	.00121	.00124	.00127	.00130	.00133	.00136	.00139	.00143
1.2	.00115	.00118	.00121	.00123	.00126	.00129	.00132	.00135	.00138	.00142	.00145
1.4	.00117	.00120	.00123	.00125	.00128	.00131	.00134	.00138	.00141	.00144	.00147
1.6	.00119	.00122	.00125	.00128	.00130	.00134	.00137	.00140	.00143	.00146	.00150
1.8	.00121	.00124	.00127	.00130	.00133	.00136	.00139	.00142	.00145	.00149	.00152
2.0	.00123	.00126	.00129	.00132	.00135	.00138	.00141	.00145	.00148	.00151	.00155
2.2	.00125	.00128	.00131	.00134	.00137	.00140	.00144	.00147	.00150	.00154	.00157
2.4	.00127	.00130	.00133	.00136	.00139	.00143	.00146	.00149	.00153	.00156	.00160
2.6	.00129	.00132	.00135	.00139	.00142	.00145	.00148	.00152	.00155	.00159	.00163
2.8	.00131	.00135	.00138	.00141	.00144	.00147	.00151	.00154	.00158	.00162	.00165
3.0	.00134	.00137	.00140	.00143	.00147	.00150	.00153	.00157	.00161	.00164	.00168
3.2	.00136	.00139	.00142	.00146	.00149	.00152	.00156	.00160	.00163	.00167	.00171
3.4	.00138	.00141	.00145	.00148	.00151	.00155	.00159	.00162	.00166	.00170	.00174
3.6	.00140	.00144	.00147	.00150	.00154	.00158	.00161	.00165	.00169	.00173	.00177
3.8	.00143	.00146	.00149	.00153	.00156	.00160	.00164	.00168	.00172	.00176	.00180
4.0	.00145	.00148	.00152	.00155	.00159	.00163	.00167	.00170	.00174	.00178	.00183
4.2	.00147	.00151	.00154	.00158	.00162	.00165	.00169	.00173	.00177	.00181	.00186
4.4	.00150	.00153	.00157	.00161	.00164	.00168	.00172	.00176	.00180	.00184	.00189
4.6	.00152	.00156	.00160	.00163	.00167	.00171	.00175	.00179	.00183	.00187	.00192
4.8	.00155	.00158	.00162	.00166	.00170	.00174	.00178	.00182	.00186	.00191	.00195
5.0	.00157	.00161	.00165	.00169	.00173	.00177	.00181	.00185	.00189	.00194	.00198
5.2	.00160	.00164	.00168	.00171	.00175	.00179	.00184	.00188	.00192	.00197	.00201
5.4	.00163	.00166	.00170	.00174	.00178	.00182	.00187	.00191	.00195	.00200	.00205
5.6	.00165	.00169	.00173	.00177	.00181	.00185	.00190	.00194	.00199	.00203	.00208
5.8	.00168	.00172	.00176	.00180	.00184	.00188	.00193	.00197	.00202	.00207	.00211
6.0	.00171	.00175	.00179	.00183	.00187	.00191	.00196	.00200	.00205	.00210	.00215
6.2	.00173	.00177	.00182	.00186	.00190	.00195	.00199	.00204	.00208	.00213	.00218
6.4	.00176	.00180	.00185	.00189	.00193	.00198	.00202	.00207	.00212	.00217	.00222
6.6	.00179	.00183	.00188	.00192	.00196	.00201	.00206	.00210	.00215	.00220	.00225
6.8	.00182	.00186	.00191	.00195	.00200	.00204	.00209	.00214	.00219	.00224	.00229
7.0	.00185	.00189	.00194	.00198	.00203	.00207	.00212	.00217	.00222	.00228	.00233

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.10	5.11	5.12	5.13	5.14	5.15	5.16	5.17	5.18	5.19	5.20
7.0	.00185	.00189	.00194	.00198	.00203	.00207	.00212	.00217	.00222	.00228	.00233
7.2	.00188	.00192	.00197	.00201	.00206	.00211	.00216	.00221	.00226	.00231	.00237
7.4	.00191	.00195	.00200	.00205	.00209	.00214	.00219	.00224	.00230	.00235	.00240
7.6	.00194	.00199	.00203	.00208	.00213	.00218	.00223	.00228	.00233	.00239	.00244
7.8	.00197	.00202	.00206	.00211	.00216	.00221	.00226	.00232	.00237	.00243	.00248
8.0	.00200	.00205	.00210	.00215	.00220	.00225	.00230	.00235	.00241	.00246	.00252
8.2	.00203	.00208	.00213	.00218	.00223	.00228	.00234	.00239	.00245	.00250	.00256
8.4	.00207	.00212	.00216	.00222	.00227	.00232	.00237	.00243	.00249	.00254	.00260
8.6	.00210	.00215	.00220	.00225	.00230	.00236	.00241	.00247	.00253	.00258	.00264
8.8	.00213	.00218	.00223	.00229	.00234	.00239	.00245	.00251	.00257	.00263	.00269
9.0	.00217	.00222	.00227	.00232	.00238	.00243	.00249	.00255	.00261	.00267	.00273
9.2	.00220	.00225	.00231	.00236	.00241	.00247	.00253	.00259	.00265	.00271	.00277
9.4	.00224	.00229	.00234	.00240	.00245	.00251	.00257	.00263	.00269	.00275	.00282
9.6	.00227	.00233	.00238	.00244	.00249	.00255	.00261	.00267	.00273	.00280	.00286
9.8	.00231	.00236	.00242	.00247	.00253	.00259	.00265	.00271	.00278	.00284	.00291
10.0	.00235	.00240	.00246	.00251	.00257	.00263	.00269	.00276	.00282	.00289	.00295
10.2	.00238	.00244	.00249	.00255	.00261	.00267	.00274	.00280	.00286	.00293	.00300
10.4	.00242	.00248	.00253	.00259	.00265	.00271	.00278	.00284	.00291	.00298	.00305
10.6	.00246	.00252	.00257	.00263	.00269	.00276	.00282	.00289	.00295	.00302	.00309
10.8	.00250	.00255	.00261	.00267	.00274	.00280	.00287	.00293	.00300	.00307	.00314
11.0	.00254	.00259	.00266	.00272	.00278	.00285	.00291	.00298	.00305	.00312	.00319
11.2	.00258	.00264	.00270	.00276	.00282	.00289	.00296	.00303	.00310	.00317	.00324
11.4	.00262	.00268	.00274	.00280	.00287	.00293	.00300	.00307	.00314	.00322	.00329
11.6	.00266	.00272	.00278	.00285	.00291	.00298	.00305	.00312	.00319	.00327	.00334
11.8	.00270	.00276	.00283	.00289	.00296	.00303	.00310	.00317	.00324	.00332	.00340
12.0	.00274	.00280	.00287	.00294	.00300	.00307	.00315	.00322	.00329	.00337	.00345
12.2	.00278	.00285	.00291	.00298	.00305	.00312	.00319	.00327	.00335	.00342	.00350
12.4	.00283	.00289	.00296	.00303	.00310	.00317	.00324	.00332	.00340	.00348	.00356
12.6	.00287	.00294	.00301	.00308	.00315	.00322	.00329	.00337	.00345	.00353	.00361
12.8	.00291	.00298	.00305	.00312	.00320	.00327	.00335	.00342	.00350	.00359	.00367
13.0	.00296	.00303	.00310	.00317	.00324	.00332	.00340	.00348	.00356	.00364	.00373
13.2	.00301	.00308	.00315	.00322	.00329	.00337	.00345	.00353	.00361	.00370	.00378
13.4	.00305	.00312	.00320	.00327	.00335	.00342	.00350	.00359	.00367	.00375	.00384
13.6	.00310	.00317	.00324	.00332	.00340	.00348	.00356	.00364	.00373	.00381	.00390
13.8	.00315	.00322	.00329	.00337	.00345	.00353	.00361	.00370	.00378	.00387	.00396
14.0	.00319	.00327	.00335	.00342	.00350	.00358	.00367	.00375	.00384	.00393	.00402

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.10	5.11	5.12	5.13	5.14	5.15	5.16	5.17	5.18	5.19	5.20
14.0	.00319	.00327	.00335	.00342	.00350	.00358	.00367	.00375	.00384	.00393	.00402
14.2	.00324	.00332	.00340	.00348	.00356	.00364	.00372	.00381	.00390	.00399	.00408
14.4	.00329	.00337	.00345	.00353	.00361	.00369	.00378	.00387	.00396	.00405	.00415
14.6	.00334	.00342	.00350	.00358	.00367	.00375	.00384	.00393	.00402	.00411	.00421
14.8	.00339	.00347	.00355	.00364	.00372	.00381	.00390	.00399	.00408	.00418	.00427
15.0	.00345	.00353	.00361	.00369	.00378	.00387	.00396	.00405	.00414	.00424	.00434
15.2	.00350	.00358	.00366	.00375	.00384	.00393	.00402	.00411	.00421	.00430	.00440
15.4	.00355	.00363	.00372	.00381	.00389	.00399	.00408	.00417	.00427	.00437	.00447
15.6	.00361	.00369	.00378	.00386	.00395	.00405	.00414	.00424	.00434	.00444	.00454
15.8	.00366	.00375	.00383	.00392	.00401	.00411	.00420	.00430	.00440	.00450	.00461
16.0	.00372	.00380	.00389	.00398	.00407	.00417	.00427	.00437	.00447	.00457	.00468
16.2	.00377	.00386	.00395	.00404	.00414	.00423	.00433	.00443	.00454	.00464	.00475
16.4	.00383	.00392	.00401	.00410	.00420	.00430	.00440	.00450	.00460	.00471	.00482
16.6	.00389	.00398	.00407	.00417	.00426	.00436	.00446	.00457	.00467	.00478	.00489
16.8	.00395	.00404	.00413	.00423	.00433	.00443	.00453	.00464	.00474	.00485	.00497
17.0	.00401	.00410	.00419	.00429	.00439	.00449	.00460	.00471	.00482	.00493	.00504
17.2	.00407	.00416	.00426	.00436	.00446	.00456	.00467	.00478	.00489	.00500	.00512
17.4	.00413	.00422	.00432	.00442	.00452	.00463	.00474	.00485	.00496	.00508	.00519
17.6	.00419	.00429	.00439	.00449	.00459	.00470	.00481	.00492	.00504	.00515	.00527
17.8	.00425	.00435	.00445	.00456	.00466	.00477	.00488	.00499	.00511	.00523	.00535
18.0	.00431	.00442	.00452	.00462	.00473	.00484	.00495	.00507	.00519	.00531	.00543
18.2	.00438	.00448	.00459	.00469	.00480	.00491	.00503	.00514	.00526	.00539	.00551
18.4	.00444	.00455	.00465	.00476	.00487	.00499	.00510	.00522	.00534	.00547	.00559
18.6	.00451	.00462	.00472	.00483	.00495	.00506	.00518	.00530	.00542	.00555	.00568
18.8	.00458	.00468	.00479	.00490	.00502	.00514	.00526	.00538	.00550	.00563	.00576
19.0	.00465	.00475	.00486	.00498	.00509	.00521	.00533	.00546	.00558	.00571	.00585
19.2	.00471	.00482	.00494	.00505	.00517	.00529	.00541	.00554	.00567	.00580	.00593
19.4	.00478	.00490	.00501	.00513	.00525	.00537	.00549	.00562	.00575	.00589	.00602
19.6	.00485	.00497	.00508	.00520	.00532	.00545	.00557	.00570	.00584	.00597	.00611
19.8	.00493	.00504	.00516	.00528	.00540	.00553	.00566	.00579	.00592	.00606	.00620
20.0	.00500	.00512	.00523	.00536	.00548	.00561	.00574	.00587	.00601	.00615	.00629
20.2	.00507	.00519	.00531	.00544	.00556	.00569	.00582	.00596	.00610	.00624	.00639
20.4	.00515	.00527	.00539	.00551	.00564	.00577	.00591	.00605	.00619	.00633	.00648
20.6	.00522	.00534	.00547	.00560	.00573	.00586	.00600	.00614	.00628	.00642	.00657
20.8	.00530	.00542	.00555	.00568	.00581	.00595	.00608	.00623	.00637	.00652	.00667
21.0	.00538	.00550	.00563	.00576	.00590	.00603	.00617	.00632	.00646	.00661	.00677

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.10	5.11	5.12	5.13	5.14	5.15	5.16	5.17	5.18	5.19	5.20
21.0	.00538	.00550	.00563	.00576	.00590	.00603	.00617	.00632	.00646	.00661	.00677
21.2	.00546	.00558	.00571	.00585	.00598	.00612	.00626	.00641	.00656	.00671	.00687
21.4	.00553	.00566	.00580	.00593	.00607	.00621	.00635	.00650	.00665	.00681	.00697
21.6	.00562	.00575	.00588	.00602	.00616	.00630	.00645	.00660	.00675	.00691	.00707
21.8	.00570	.00583	.00597	.00610	.00625	.00639	.00654	.00669	.00685	.00701	.00717
22.0	.00578	.00591	.00605	.00619	.00634	.00649	.00664	.00679	.00695	.00711	.00728
22.2	.00586	.00600	.00614	.00628	.00643	.00658	.00673	.00689	.00705	.00721	.00738
22.4	.00595	.00609	.00623	.00637	.00652	.00667	.00683	.00699	.00715	.00732	.00749
22.6	.00604	.00618	.00632	.00647	.00662	.00677	.00693	.00709	.00726	.00742	.00760
22.8	.00612	.00626	.00641	.00656	.00671	.00687	.00703	.00719	.00736	.00753	.00771
23.0	.00621	.00636	.00650	.00665	.00681	.00697	.00713	.00730	.00747	.00764	.00782
23.2	.00630	.00645	.00660	.00675	.00691	.00707	.00723	.00740	.00757	.00775	.00793
23.4	.00639	.00654	.00669	.00685	.00701	.00717	.00734	.00751	.00768	.00786	.00805
23.6	.00648	.00663	.00679	.00695	.00711	.00727	.00744	.00762	.00779	.00798	.00816
23.8	.00658	.00673	.00689	.00705	.00721	.00738	.00755	.00773	.00791	.00809	.00828
24.0	.00667	.00683	.00698	.00715	.00731	.00748	.00766	.00784	.00802	.00821	.00840
24.2	.00677	.00692	.00708	.00725	.00742	.00759	.00777	.00795	.00813	.00832	.00852
24.4	.00686	.00702	.00719	.00735	.00752	.00770	.00788	.00806	.00825	.00844	.00864
24.6	.00696	.00712	.00729	.00746	.00763	.00781	.00799	.00818	.00837	.00856	.00876
24.8	.00706	.00722	.00739	.00756	.00774	.00792	.00811	.00829	.00849	.00869	.00889
25.0	.00716	.00733	.00750	.00767	.00785	.00803	.00822	.00841	.00861	.00881	.00901
25.2	.00726	.00743	.00760	.00778	.00796	.00815	.00834	.00853	.00873	.00893	.00914
25.4	.00737	.00754	.00771	.00789	.00808	.00826	.00846	.00865	.00886	.00906	.00927
25.6	.00747	.00764	.00782	.00800	.00819	.00838	.00858	.00878	.00898	.00919	.00940
25.8	.00758	.00775	.00793	.00812	.00831	.00850	.00870	.00890	.00911	.00932	.00954
26.0	.00768	.00786	.00805	.00823	.00842	.00862	.00882	.00903	.00924	.00945	.00967
26.2	.00779	.00797	.00816	.00835	.00854	.00874	.00895	.00915	.00937	.00959	.00981
26.4	.00790	.00809	.00827	.00847	.00866	.00887	.00907	.00928	.00950	.00972	.00995
26.6	.00801	.00820	.00839	.00859	.00879	.00899	.00920	.00941	.00963	.00986	.01009
26.8	.00813	.00831	.00851	.00871	.00891	.00912	.00933	.00955	.00977	.01000	.01023
27.0	.00824	.00843	.00863	.00883	.00903	.00925	.00946	.00968	.00991	.01014	.01037
27.2	.00836	.00855	.00875	.00895	.00916	.00937	.00959	.00982	.01005	.01028	.01052
27.4	.00847	.00867	.00887	.00908	.00929	.00951	.00973	.00995	.01019	.01042	.01067
27.6	.00859	.00879	.00900	.00921	.00942	.00964	.00986	.01009	.01033	.01057	.01082
27.8	.00871	.00891	.00912	.00933	.00955	.00977	.01000	.01023	.01047	.01072	.01097
28.0	.00883	.00904	.00925	.00946	.00968	.00991	.01014	.01038	.01062	.01087	.01112

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.10	5.11	5.12	5.13	5.14	5.15	5.16	5.17	5.18	5.19	5.20
28.0	.00883	.00904	.00925	.00946	.00968	.00991	.01014	.01038	.01062	.01087	.01112
28.2	.00896	.00916	.00938	.00960	.00982	.01005	.01028	.01052	.01077	.01102	.01127
28.4	.00908	.00929	.00951	.00973	.00996	.01019	.01043	.01067	.01092	.01117	.01143
28.6	.00921	.00942	.00964	.00987	.01009	.01033	.01057	.01082	.01107	.01133	.01159
28.8	.00933	.00955	.00977	.01000	.01024	.01047	.01072	.01097	.01122	.01148	.01175
29.0	.00946	.00968	.00991	.01014	.01038	.01062	.01087	.01112	.01138	.01164	.01191
29.2	.00960	.00982	.01005	.01028	.01052	.01077	.01102	.01127	.01154	.01180	.01208
29.4	.00973	.00995	.01019	.01042	.01067	.01091	.01117	.01143	.01170	.01197	.01225
29.6	.00986	.01009	.01033	.01057	.01081	.01107	.01132	.01159	.01186	.01213	.01242
29.8	.01000	.01023	.01047	.01071	.01096	.01122	.01148	.01175	.01202	.01230	.01259
30.0	.0101	.0104	.0106	.0109	.0111	.0114	.0116	.0119	.0122	.0125	.0128
30.2	.0103	.0105	.0108	.0110	.0113	.0115	.0118	.0121	.0124	.0126	.0129
30.4	.0104	.0107	.0109	.0112	.0114	.0117	.0120	.0122	.0125	.0128	.0131
30.6	.0106	.0108	.0111	.0113	.0116	.0118	.0121	.0124	.0127	.0130	.0133
30.8	.0107	.0110	.0112	.0115	.0117	.0120	.0123	.0126	.0129	.0132	.0135
31.0	.0109	.0111	.0114	.0116	.0119	.0122	.0125	.0127	.0130	.0133	.0137
31.2	.0110	.0113	.0115	.0118	.0121	.0123	.0126	.0129	.0132	.0135	.0138
31.4	.0111	.0114	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140
31.6	.0113	.0116	.0118	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142
31.8	.0115	.0117	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0144
32.0	.0116	.0119	.0122	.0124	.0127	.0130	.0133	.0136	.0140	.0143	.0146
32.2	.0118	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0145	.0148
32.4	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0143	.0147	.0150
32.6	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0145	.0149	.0152
32.8	.0123	.0125	.0128	.0131	.0134	.0137	.0141	.0144	.0147	.0151	.0154
33.0	.0124	.0127	.0130	.0133	.0136	.0139	.0143	.0146	.0149	.0153	.0156
33.2	.0126	.0129	.0132	.0135	.0138	.0141	.0144	.0148	.0151	.0155	.0158
33.4	.0128	.0131	.0134	.0137	.0140	.0143	.0146	.0150	.0153	.0157	.0161
33.6	.0129	.0132	.0135	.0139	.0142	.0145	.0148	.0152	.0155	.0159	.0163
33.8	.0131	.0134	.0137	.0140	.0144	.0147	.0150	.0154	.0157	.0161	.0165
34.0	.0133	.0136	.0139	.0142	.0146	.0149	.0152	.0156	.0160	.0163	.0167
34.2	.0135	.0138	.0141	.0144	.0148	.0151	.0154	.0158	.0162	.0166	.0169
34.4	.0136	.0140	.0143	.0146	.0149	.0153	.0157	.0160	.0164	.0168	.0172
34.6	.0138	.0141	.0145	.0148	.0151	.0155	.0159	.0162	.0166	.0170	.0174
34.8	.0140	.0143	.0147	.0150	.0154	.0157	.0161	.0164	.0168	.0172	.0176
35.0	.0142	.0145	.0149	.0152	.0156	.0159	.0163	.0167	.0171	.0175	.0179

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.10	5.11	5.12	5.13	5.14	5.15	5.16	5.17	5.18	5.19	5.20
35.0	.0142	.0145	.0149	.0152	.0156	.0159	.0163	.0167	.0171	.0175	.0179
35.2	.0144	.0147	.0151	.0154	.0158	.0161	.0165	.0169	.0173	.0177	.0181
35.4	.0146	.0149	.0153	.0156	.0160	.0163	.0167	.0171	.0175	.0179	.0183
35.6	.0148	.0151	.0155	.0158	.0162	.0166	.0169	.0173	.0177	.0182	.0186
35.8	.0150	.0153	.0157	.0160	.0164	.0168	.0172	.0176	.0180	.0184	.0188
36.0	.0152	.0155	.0159	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0191
36.2	.0154	.0157	.0161	.0165	.0168	.0172	.0176	.0180	.0185	.0189	.0193
36.4	.0156	.0159	.0163	.0167	.0171	.0175	.0179	.0183	.0187	.0191	.0196
36.6	.0158	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0189	.0194	.0198
36.8	.0160	.0163	.0167	.0171	.0175	.0179	.0183	.0188	.0192	.0196	.0201
37.0	.0162	.0166	.0169	.0173	.0177	.0182	.0186	.0190	.0195	.0199	.0204
37.2	.0164	.0168	.0172	.0176	.0180	.0184	.0188	.0193	.0197	.0202	.0206
37.4	.0166	.0170	.0174	.0178	.0182	.0186	.0191	.0195	.0200	.0204	.0209
37.6	.0168	.0172	.0176	.0180	.0184	.0189	.0193	.0198	.0202	.0207	.0212
37.8	.0170	.0174	.0178	.0183	.0187	.0191	.0196	.0200	.0205	.0210	.0215
38.0	.0173	.0177	.0181	.0185	.0189	.0194	.0198	.0203	.0208	.0212	.0217
38.2	.0175	.0179	.0183	.0187	.0192	.0196	.0201	.0206	.0210	.0215	.0220
38.4	.0177	.0181	.0186	.0190	.0194	.0199	.0203	.0208	.0213	.0218	.0223
38.6	.0180	.0184	.0188	.0192	.0197	.0201	.0206	.0211	.0216	.0221	.0226
38.8	.0182	.0186	.0190	.0195	.0199	.0204	.0209	.0214	.0219	.0224	.0229
39.0	.0184	.0189	.0193	.0197	.0202	.0207	.0212	.0216	.0221	.0227	.0232
39.2	.0187	.0191	.0195	.0200	.0205	.0209	.0214	.0219	.0224	.0230	.0235
39.4	.0189	.0193	.0198	.0203	.0207	.0212	.0217	.0222	.0227	.0233	.0238
39.6	.0191	.0196	.0200	.0205	.0210	.0215	.0220	.0225	.0230	.0236	.0241
39.8	.0194	.0198	.0203	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244
40.0	.0196	.0201	.0206	.0210	.0215	.0220	.0226	.0231	.0236	.0242	.0247

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.20	5.21	5.22	5.23	5.24	5.25	5.26	5.27	5.28	5.29	5.30
.0	.00131	.00134	.00137	.00140	.00144	.00147	.00150	.00154	.00158	.00161	.00165
.2	.00133	.00136	.00140	.00143	.00146	.00150	.00153	.00157	.00160	.00164	.00168
.4	.00136	.00139	.00142	.00145	.00149	.00152	.00156	.00159	.00163	.00167	.00171
.6	.00138	.00141	.00144	.00148	.00151	.00155	.00158	.00162	.00166	.00170	.00174
.8	.00140	.00143	.00147	.00150	.00154	.00157	.00161	.00165	.00168	.00172	.00176
1.0	.00143	.00146	.00149	.00153	.00156	.00160	.00164	.00167	.00171	.00175	.00179
1.2	.00145	.00148	.00152	.00155	.00159	.00163	.00166	.00170	.00174	.00178	.00182
1.4	.00147	.00151	.00154	.00158	.00162	.00165	.00169	.00173	.00177	.00181	.00186
1.6	.00150	.00153	.00157	.00161	.00164	.00168	.00172	.00176	.00180	.00184	.00189
1.8	.00152	.00156	.00160	.00163	.00167	.00171	.00175	.00179	.00183	.00187	.00192
2.0	.00155	.00158	.00162	.00166	.00170	.00174	.00178	.00182	.00186	.00191	.00195
2.2	.00157	.00161	.00165	.00169	.00173	.00177	.00181	.00185	.00189	.00194	.00198
2.4	.00160	.00164	.00168	.00172	.00176	.00180	.00184	.00188	.00192	.00197	.00202
2.6	.00163	.00167	.00170	.00174	.00178	.00183	.00187	.00191	.00196	.00200	.00205
2.8	.00165	.00169	.00173	.00177	.00181	.00186	.00190	.00194	.00199	.00204	.00208
3.0	.00168	.00172	.00176	.00180	.00184	.00189	.00193	.00198	.00202	.00207	.00212
3.2	.00171	.00175	.00179	.00183	.00188	.00192	.00196	.00201	.00206	.00210	.00215
3.4	.00174	.00178	.00182	.00186	.00191	.00195	.00200	.00204	.00209	.00214	.00219
3.6	.00177	.00181	.00185	.00189	.00194	.00198	.00203	.00208	.00212	.00217	.00223
3.8	.00180	.00184	.00188	.00193	.00197	.00202	.00206	.00211	.00216	.00221	.00226
4.0	.00183	.00187	.00191	.00196	.00200	.00205	.00210	.00215	.00220	.00225	.00230
4.2	.00186	.00190	.00194	.00199	.00204	.00208	.00213	.00218	.00223	.00228	.00234
4.4	.00189	.00193	.00198	.00202	.00207	.00212	.00217	.00222	.00227	.00232	.00238
4.6	.00192	.00196	.00201	.00206	.00210	.00215	.00220	.00225	.00231	.00236	.00241
4.8	.00195	.00199	.00204	.00209	.00214	.00219	.00224	.00229	.00234	.00240	.00245
5.0	.00198	.00203	.00207	.00212	.00217	.00222	.00227	.00233	.00238	.00244	.00249
5.2	.00201	.00206	.00211	.00216	.00221	.00226	.00231	.00237	.00242	.00248	.00254
5.4	.00205	.00209	.00214	.00219	.00224	.00230	.00235	.00240	.00246	.00252	.00258
5.6	.00208	.00213	.00218	.00223	.00228	.00233	.00239	.00244	.00250	.00256	.00262
5.8	.00211	.00216	.00221	.00227	.00232	.00237	.00243	.00248	.00254	.00260	.00266
6.0	.00215	.00220	.00225	.00230	.00236	.00241	.00247	.00252	.00258	.00264	.00270
6.2	.00218	.00223	.00229	.00234	.00239	.00245	.00251	.00257	.00262	.00269	.00275
6.4	.00222	.00227	.00232	.00238	.00243	.00249	.00255	.00261	.00267	.00273	.00279
6.6	.00225	.00231	.00236	.00242	.00247	.00253	.00259	.00265	.00271	.00277	.00284
6.8	.00229	.00234	.00240	.00245	.00251	.00257	.00263	.00269	.00275	.00282	.00288
7.0	.00233	.00238	.00244	.00249	.00255	.00261	.00267	.00274	.00280	.00286	.00293

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.20	5.21	5.22	5.23	5.24	5.25	5.26	5.27	5.28	5.29	5.30
7.0	.00233	.00238	.00244	.00249	.00255	.00261	.00267	.00274	.00280	.00286	.00293
7.2	.00237	.00242	.00248	.00253	.00259	.00265	.00272	.00278	.00284	.00291	.00298
7.4	.00240	.00246	.00252	.00258	.00264	.00270	.00276	.00282	.00289	.00296	.00303
7.6	.00244	.00250	.00256	.00262	.00268	.00274	.00280	.00287	.00294	.00300	.00307
7.8	.00248	.00254	.00260	.00266	.00272	.00278	.00285	.00292	.00298	.00305	.00312
8.0	.00252	.00258	.00264	.00270	.00276	.00283	.00289	.00296	.00303	.00310	.00317
8.2	.00256	.00262	.00268	.00274	.00281	.00287	.00294	.00301	.00308	.00315	.00322
8.4	.00260	.00266	.00273	.00279	.00285	.00292	.00299	.00306	.00313	.00320	.00328
8.6	.00264	.00271	.00277	.00283	.00290	.00297	.00304	.00311	.00318	.00325	.00333
8.8	.00269	.00275	.00281	.00288	.00295	.00301	.00308	.00316	.00323	.00330	.00338
9.0	.00273	.00279	.00286	.00292	.00299	.00306	.00313	.00321	.00328	.00336	.00344
9.2	.00277	.00284	.00290	.00297	.00304	.00311	.00318	.00326	.00333	.00341	.00349
9.4	.00282	.00288	.00295	.00302	.00309	.00316	.00323	.00331	.00339	.00347	.00355
9.6	.00286	.00293	.00300	.00307	.00314	.00321	.00329	.00336	.00344	.00352	.00360
9.8	.00291	.00297	.00304	.00311	.00319	.00326	.00334	.00341	.00349	.00358	.00366
10.0	.00295	.00302	.00309	.00316	.00324	.00331	.00339	.00347	.00355	.00363	.00372
10.2	.00300	.00307	.00314	.00321	.00329	.00336	.00344	.00352	.00361	.00369	.00378
10.4	.00305	.00312	.00319	.00326	.00334	.00342	.00350	.00358	.00366	.00375	.00383
10.6	.00309	.00317	.00324	.00332	.00339	.00347	.00355	.00364	.00372	.00381	.00390
10.8	.00314	.00322	.00329	.00337	.00345	.00353	.00361	.00369	.00378	.00387	.00396
11.0	.00319	.00327	.00334	.00342	.00350	.00358	.00367	.00375	.00384	.00393	.00402
11.2	.00324	.00332	.00339	.00347	.00355	.00364	.00372	.00381	.00390	.00399	.00408
11.4	.00329	.00337	.00345	.00353	.00361	.00369	.00378	.00387	.00396	.00405	.00415
11.6	.00334	.00342	.00350	.00358	.00367	.00375	.00384	.00393	.00402	.00411	.00421
11.8	.00340	.00348	.00356	.00364	.00372	.00381	.00390	.00399	.00408	.00418	.00428
12.0	.00345	.00353	.00361	.00370	.00378	.00387	.00396	.00405	.00415	.00424	.00434
12.2	.00350	.00358	.00367	.00375	.00384	.00393	.00402	.00412	.00421	.00431	.00441
12.4	.00356	.00364	.00373	.00381	.00390	.00399	.00408	.00418	.00428	.00438	.00448
12.6	.00361	.00370	.00378	.00387	.00396	.00405	.00415	.00424	.00434	.00444	.00455
12.8	.00367	.00375	.00384	.00393	.00402	.00412	.00421	.00431	.00441	.00451	.00462
13.0	.00373	.00381	.00390	.00399	.00408	.00418	.00428	.00438	.00448	.00458	.00469
13.2	.00378	.00387	.00396	.00405	.00415	.00424	.00434	.00444	.00455	.00465	.00476
13.4	.00384	.00393	.00402	.00412	.00421	.00431	.00441	.00451	.00462	.00473	.00484
13.6	.00390	.00399	.00408	.00418	.00428	.00438	.00448	.00458	.00469	.00480	.00491
13.8	.00396	.00405	.00415	.00424	.00434	.00444	.00455	.00465	.00476	.00487	.00499
14.0	.00402	.00412	.00421	.00431	.00441	.00451	.00462	.00472	.00483	.00495	.00506

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.20	5.21	5.22	5.23	5.24	5.25	5.26	5.27	5.28	5.29	5.30
14.0	.00402	.00412	.00421	.00431	.00441	.00451	.00462	.00472	.00483	.00495	.00506
14.2	.00408	.00418	.00428	.00438	.00448	.00458	.00469	.00480	.00491	.00502	.00514
14.4	.00415	.00424	.00434	.00444	.00455	.00465	.00476	.00487	.00498	.00510	.00522
14.6	.00421	.00431	.00441	.00451	.00462	.00472	.00483	.00495	.00506	.00518	.00530
14.8	.00427	.00437	.00447	.00458	.00469	.00480	.00491	.00502	.00514	.00526	.00538
15.0	.00434	.00444	.00454	.00465	.00476	.00487	.00498	.00510	.00522	.00534	.00546
15.2	.00440	.00451	.00461	.00472	.00483	.00494	.00506	.00518	.00530	.00542	.00555
15.4	.00447	.00458	.00468	.00479	.00490	.00502	.00513	.00525	.00538	.00550	.00563
15.6	.00454	.00465	.00475	.00486	.00498	.00509	.00521	.00533	.00546	.00559	.00572
15.8	.00461	.00472	.00483	.00494	.00505	.00517	.00529	.00541	.00554	.00567	.00580
16.0	.00468	.00479	.00490	.00501	.00513	.00525	.00537	.00550	.00562	.00576	.00589
16.2	.00475	.00486	.00497	.00509	.00521	.00533	.00545	.00558	.00571	.00584	.00598
16.4	.00482	.00493	.00505	.00517	.00529	.00541	.00554	.00566	.00580	.00593	.00607
16.6	.00489	.00501	.00512	.00524	.00537	.00549	.00562	.00575	.00588	.00602	.00616
16.8	.00497	.00508	.00520	.00532	.00545	.00557	.00570	.00584	.00597	.00611	.00625
17.0	.00504	.00516	.00528	.00540	.00553	.00566	.00579	.00592	.00606	.00620	.00635
17.2	.00512	.00524	.00536	.00548	.00561	.00574	.00588	.00601	.00615	.00630	.00644
17.4	.00519	.00532	.00544	.00557	.00570	.00583	.00596	.00610	.00625	.00639	.00654
17.6	.00527	.00540	.00552	.00565	.00578	.00592	.00605	.00619	.00634	.00649	.00664
17.8	.00535	.00548	.00560	.00573	.00587	.00600	.00614	.00629	.00643	.00658	.00674
18.0	.00543	.00556	.00569	.00582	.00596	.00609	.00624	.00638	.00653	.00668	.00684
18.2	.00551	.00564	.00577	.00591	.00604	.00619	.00633	.00648	.00663	.00678	.00694
18.4	.00559	.00573	.00586	.00599	.00613	.00628	.00642	.00657	.00673	.00688	.00704
18.6	.00568	.00581	.00595	.00608	.00623	.00637	.00652	.00667	.00683	.00699	.00715
18.8	.00576	.00590	.00603	.00617	.00632	.00647	.00662	.00677	.00693	.00709	.00725
19.0	.00585	.00598	.00612	.00627	.00641	.00656	.00671	.00687	.00703	.00719	.00736
19.2	.00593	.00607	.00621	.00636	.00651	.00666	.00681	.00697	.00713	.00730	.00747
19.4	.00602	.00616	.00631	.00645	.00660	.00676	.00691	.00708	.00724	.00741	.00758
19.6	.00611	.00625	.00640	.00655	.00670	.00686	.00702	.00718	.00735	.00752	.00769
19.8	.00620	.00635	.00649	.00665	.00680	.00696	.00712	.00729	.00746	.00763	.00781
20.0	.00629	.00644	.00659	.00674	.00690	.00706	.00723	.00739	.00757	.00774	.00792
20.2	.00639	.00653	.00669	.00684	.00700	.00716	.00733	.00750	.00768	.00786	.00804
20.4	.00648	.00663	.00678	.00694	.00710	.00727	.00744	.00761	.00779	.00797	.00816
20.6	.00657	.00673	.00688	.00704	.00721	.00738	.00755	.00772	.00790	.00809	.00828
20.8	.00667	.00683	.00699	.00715	.00731	.00748	.00766	.00784	.00802	.00821	.00840
21.0	.00677	.00693	.00709	.00725	.00742	.00759	.00777	.00795	.00814	.00833	.00852

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.20	5.21	5.22	5.23	5.24	5.25	5.26	5.27	5.28	5.29	5.30
21.0	.00677	.00693	.00709	.00725	.00742	.00759	.00777	.00795	.00814	.00833	.00852
21.2	.00687	.00703	.00719	.00736	.00753	.00771	.00788	.00807	.00826	.00845	.00865
21.4	.00697	.00713	.00730	.00747	.00764	.00782	.00800	.00819	.00838	.00857	.00877
21.6	.00707	.00723	.00740	.00757	.00775	.00793	.00812	.00831	.00850	.00870	.00890
21.8	.00717	.00734	.00751	.00769	.00786	.00805	.00823	.00843	.00862	.00882	.00903
22.0	.00728	.00745	.00762	.00780	.00798	.00816	.00835	.00855	.00875	.00895	.00916
22.2	.00738	.00755	.00773	.00791	.00809	.00828	.00848	.00867	.00888	.00908	.00929
22.4	.00749	.00766	.00784	.00802	.00821	.00840	.00860	.00880	.00900	.00921	.00943
22.6	.00760	.00777	.00796	.00814	.00833	.00852	.00872	.00893	.00913	.00935	.00956
22.8	.00771	.00789	.00807	.00826	.00845	.00865	.00885	.00906	.00927	.00948	.00970
23.0	.00782	.00800	.00819	.00838	.00857	.00877	.00898	.00919	.00940	.00962	.00984
23.2	.00793	.00812	.00831	.00850	.00870	.00890	.00911	.00932	.00954	.00976	.00998
23.4	.00805	.00823	.00842	.00862	.00882	.00903	.00924	.00945	.00967	.00990	.01013
23.6	.00816	.00835	.00855	.00874	.00895	.00916	.00937	.00959	.00981	.01004	.01027
23.8	.00828	.00847	.00867	.00887	.00908	.00929	.00950	.00973	.00995	.01018	.01042
24.0	.00840	.00859	.00879	.00900	.00921	.00942	.00964	.00987	.01010	.01033	.01057
24.2	.00852	.00872	.00892	.00913	.00934	.00956	.00978	.01001	.01024	.01048	.01072
24.4	.00864	.00884	.00905	.00926	.00947	.00969	.00992	.01015	.01039	.01063	.01088
24.6	.00876	.00897	.00918	.00939	.00961	.00983	.01006	.01030	.01053	.01078	.01103
24.8	.00889	.00909	.00931	.00952	.00975	.00997	.01020	.01044	.01069	.01093	.01119
25.0	.00901	.00922	.00944	.00966	.00988	.01011	.01035	.01059	.01084	.01109	.01135
25.2	.00914	.00936	.00957	.00980	.01002	.01026	.01050	.01074	.01099	.01125	.01151
25.4	.00927	.00949	.00971	.00994	.01017	.01040	.01065	.01089	.01115	.01141	.01167
25.6	.00940	.00962	.00985	.01008	.01031	.01055	.01080	.01105	.01131	.01157	.01184
25.8	.00954	.00976	.00999	.01022	.01046	.01070	.01095	.01120	.01147	.01173	.01201
26.0	.00967	.00990	.01013	.01036	.01061	.01085	.01110	.01136	.01163	.01190	.01218
26.2	.00981	.01004	.01027	.01051	.01075	.01101	.01126	.01152	.01179	.01207	.01235
26.4	.00995	.01018	.01042	.01066	.01091	.01116	.01142	.01169	.01196	.01224	.01252
26.6	.0101	.0103	.0106	.0108	.0111	.0113	.0116	.0119	.0121	.0124	.0127
26.8	.0102	.0105	.0107	.0110	.0112	.0115	.0117	.0120	.0123	.0126	.0129
27.0	.0104	.0106	.0109	.0111	.0114	.0116	.0119	.0122	.0125	.0128	.0131
27.2	.0105	.0108	.0110	.0113	.0115	.0118	.0121	.0124	.0126	.0129	.0132
27.4	.0107	.0109	.0112	.0114	.0117	.0120	.0122	.0125	.0128	.0131	.0134
27.6	.0108	.0111	.0113	.0116	.0119	.0121	.0124	.0127	.0130	.0133	.0136
27.8	.0110	.0112	.0115	.0118	.0120	.0123	.0126	.0129	.0132	.0135	.0138
28.0	.0111	.0114	.0116	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.20	5.21	5.22	5.23	5.24	5.25	5.26	5.27	5.28	5.29	5.30
28.0	.0111	.0114	.0116	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140
28.2	.0113	.0115	.0118	.0121	.0124	.0127	.0129	.0132	.0136	.0139	.0142
28.4	.0114	.0117	.0120	.0122	.0125	.0128	.0131	.0134	.0137	.0141	.0144
28.6	.0116	.0119	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0143	.0146
28.8	.0118	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0145	.0148
29.0	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0143	.0147	.0150
29.2	.0121	.0124	.0126	.0129	.0132	.0136	.0139	.0142	.0145	.0149	.0152
29.4	.0122	.0125	.0128	.0131	.0134	.0137	.0141	.0144	.0147	.0151	.0154
29.6	.0124	.0127	.0130	.0133	.0136	.0139	.0143	.0146	.0149	.0153	.0156
29.8	.0126	.0129	.0132	.0135	.0138	.0141	.0145	.0148	.0151	.0155	.0158
30.0	.0128	.0131	.0134	.0137	.0140	.0143	.0147	.0150	.0153	.0157	.0161
30.2	.0129	.0132	.0135	.0139	.0142	.0145	.0149	.0152	.0156	.0159	.0163
30.4	.0131	.0134	.0137	.0141	.0144	.0147	.0151	.0154	.0158	.0161	.0165
30.6	.0133	.0136	.0139	.0142	.0146	.0149	.0153	.0156	.0160	.0164	.0167
30.8	.0135	.0138	.0141	.0144	.0148	.0151	.0155	.0158	.0162	.0166	.0170
31.0	.0137	.0140	.0143	.0146	.0150	.0153	.0157	.0160	.0164	.0168	.0172
31.2	.0138	.0142	.0145	.0148	.0152	.0155	.0159	.0163	.0166	.0170	.0174
31.4	.0140	.0144	.0147	.0150	.0154	.0157	.0161	.0165	.0169	.0173	.0177
31.6	.0142	.0146	.0149	.0152	.0156	.0160	.0163	.0167	.0171	.0175	.0179
31.8	.0144	.0148	.0151	.0155	.0158	.0162	.0166	.0169	.0173	.0177	.0182
32.0	.0146	.0150	.0153	.0157	.0160	.0164	.0168	.0172	.0176	.0180	.0184
32.2	.0148	.0152	.0155	.0159	.0162	.0166	.0170	.0174	.0178	.0182	.0186
32.4	.0150	.0154	.0157	.0161	.0165	.0168	.0172	.0176	.0181	.0185	.0189
32.6	.0152	.0156	.0159	.0163	.0167	.0171	.0175	.0179	.0183	.0187	.0192
32.8	.0154	.0158	.0162	.0165	.0169	.0173	.0177	.0181	.0185	.0190	.0194
33.0	.0156	.0160	.0164	.0168	.0171	.0175	.0179	.0184	.0188	.0192	.0197
33.2	.0158	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0190	.0195	.0199
33.4	.0161	.0164	.0168	.0172	.0176	.0180	.0184	.0189	.0193	.0198	.0202
33.6	.0163	.0167	.0170	.0174	.0178	.0183	.0187	.0191	.0196	.0200	.0205
33.8	.0165	.0169	.0173	.0177	.0181	.0185	.0189	.0194	.0198	.0203	.0208
34.0	.0167	.0171	.0175	.0179	.0183	.0188	.0192	.0196	.0201	.0206	.0210
34.2	.0169	.0173	.0177	.0181	.0186	.0190	.0194	.0199	.0204	.0208	.0213
34.4	.0172	.0176	.0180	.0184	.0188	.0193	.0197	.0202	.0206	.0211	.0216
34.6	.0174	.0178	.0182	.0186	.0191	.0195	.0200	.0204	.0209	.0214	.0219
34.8	.0176	.0180	.0185	.0189	.0193	.0198	.0202	.0207	.0212	.0217	.0222
35.0	.0179	.0183	.0187	.0191	.0196	.0200	.0205	.0210	.0215	.0220	.0225

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.20	5.21	5.22	5.23	5.24	5.25	5.26	5.27	5.28	5.29	5.30
35.0	.0179	.0183	.0187	.0191	.0196	.0200	.0205	.0210	.0215	.0220	.0225
35.2	.0181	.0185	.0189	.0194	.0198	.0203	.0208	.0213	.0218	.0223	.0228
35.4	.0183	.0188	.0192	.0196	.0201	.0206	.0211	.0215	.0220	.0226	.0231
35.6	.0186	.0190	.0195	.0199	.0204	.0208	.0213	.0218	.0223	.0229	.0234
35.8	.0188	.0193	.0197	.0202	.0206	.0211	.0216	.0221	.0226	.0232	.0237
36.0	.0191	.0195	.0200	.0204	.0209	.0214	.0219	.0224	.0229	.0235	.0240
36.2	.0193	.0198	.0202	.0207	.0212	.0217	.0222	.0227	.0232	.0238	.0243
36.4	.0196	.0200	.0205	.0210	.0215	.0220	.0225	.0230	.0235	.0241	.0247
36.6	.0198	.0203	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244	.0250
36.8	.0201	.0206	.0211	.0215	.0220	.0226	.0231	.0236	.0242	.0247	.0253
37.0	.0204	.0208	.0213	.0218	.0223	.0229	.0234	.0239	.0245	.0251	.0256
37.2	.0206	.0211	.0216	.0221	.0226	.0232	.0237	.0242	.0248	.0254	.0260
37.4	.0209	.0214	.0219	.0224	.0229	.0235	.0240	.0246	.0251	.0257	.0263
37.6	.0212	.0217	.0222	.0227	.0232	.0238	.0243	.0249	.0255	.0261	.0267
37.8	.0215	.0220	.0225	.0230	.0235	.0241	.0246	.0252	.0258	.0264	.0270
38.0	.0217	.0222	.0228	.0233	.0238	.0244	.0250	.0255	.0261	.0267	.0274
38.2	.0220	.0225	.0231	.0236	.0241	.0247	.0253	.0259	.0265	.0271	.0277
38.4	.0223	.0228	.0234	.0239	.0245	.0250	.0256	.0262	.0268	.0274	.0281
38.6	.0226	.0231	.0237	.0242	.0248	.0254	.0259	.0266	.0272	.0278	.0284
38.8	.0229	.0234	.0240	.0245	.0251	.0257	.0263	.0269	.0275	.0282	.0288
39.0	.0232	.0237	.0243	.0248	.0254	.0260	.0266	.0272	.0279	.0285	.0292
39.2	.0235	.0240	.0246	.0252	.0258	.0264	.0270	.0276	.0282	.0289	.0296
39.4	.0238	.0243	.0249	.0255	.0261	.0267	.0273	.0280	.0286	.0293	.0300
39.6	.0241	.0247	.0252	.0258	.0264	.0270	.0277	.0283	.0290	.0297	.0303
39.8	.0244	.0250	.0256	.0262	.0268	.0274	.0280	.0287	.0294	.0300	.0307
40.0	.0247	.0253	.0259	.0265	.0271	.0277	.0284	.0291	.0297	.0304	.0311

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.30	5.31	5.32	5.33	5.34	5.35	5.36	5.37	5.38	5.39	5.40
.0	.00165	.00169	.00173	.00177	.00181	.00185	.00189	.00194	.00198	.00203	.00208
.2	.00168	.00172	.00176	.00180	.00184	.00188	.00193	.00197	.00202	.00206	.00211
.4	.00171	.00175	.00179	.00183	.00187	.00191	.00196	.00200	.00205	.00210	.00215
.6	.00174	.00178	.00182	.00186	.00190	.00195	.00199	.00204	.00209	.00213	.00218
.8	.00176	.00181	.00185	.00189	.00193	.00198	.00203	.00207	.00212	.00217	.00222
1.0	.00179	.00184	.00188	.00192	.00197	.00201	.00206	.00211	.00216	.00221	.00226
1.2	.00182	.00187	.00191	.00195	.00200	.00205	.00209	.00214	.00219	.00224	.00230
1.4	.00186	.00190	.00194	.00199	.00203	.00208	.00213	.00218	.00223	.00228	.00234
1.6	.00189	.00193	.00198	.00202	.00207	.00212	.00217	.00222	.00227	.00232	.00237
1.8	.00192	.00196	.00201	.00205	.00210	.00215	.00220	.00225	.00231	.00236	.00241
2.0	.00195	.00200	.00204	.00209	.00214	.00219	.00224	.00229	.00234	.00240	.00245
2.2	.00198	.00203	.00208	.00212	.00217	.00222	.00228	.00233	.00238	.00244	.00250
2.4	.00202	.00206	.00211	.00216	.00221	.00226	.00231	.00237	.00242	.00248	.00254
2.6	.00205	.00210	.00215	.00220	.00225	.00230	.00235	.00241	.00246	.00252	.00258
2.8	.00208	.00213	.00218	.00223	.00228	.00234	.00239	.00245	.00250	.00256	.00262
3.0	.00212	.00217	.00222	.00227	.00232	.00238	.00243	.00249	.00255	.00261	.00267
3.2	.00215	.00220	.00225	.00231	.00236	.00242	.00247	.00253	.00259	.00265	.00271
3.4	.00219	.00224	.00229	.00235	.00240	.00246	.00251	.00257	.00263	.00269	.00276
3.6	.00223	.00228	.00233	.00238	.00244	.00250	.00255	.00261	.00268	.00274	.00280
3.8	.00226	.00231	.00237	.00242	.00248	.00254	.00260	.00266	.00272	.00278	.00285
4.0	.00230	.00235	.00241	.00246	.00252	.00258	.00264	.00270	.00276	.00283	.00289
4.2	.00234	.00239	.00245	.00250	.00256	.00262	.00268	.00275	.00281	.00288	.00294
4.4	.00238	.00243	.00249	.00255	.00260	.00267	.00273	.00279	.00286	.00292	.00299
4.6	.00241	.00247	.00253	.00259	.00265	.00271	.00277	.00284	.00290	.00297	.00304
4.8	.00245	.00251	.00257	.00263	.00269	.00275	.00282	.00288	.00295	.00302	.00309
5.0	.00249	.00255	.00261	.00267	.00274	.00280	.00286	.00293	.00300	.00307	.00314
5.2	.00254	.00259	.00265	.00272	.00278	.00284	.00291	.00298	.00305	.00312	.00319
5.4	.00258	.00264	.00270	.00276	.00283	.00289	.00296	.00303	.00310	.00317	.00324
5.6	.00262	.00268	.00274	.00281	.00287	.00294	.00301	.00308	.00315	.00322	.00330
5.8	.00266	.00272	.00279	.00285	.00292	.00299	.00306	.00313	.00320	.00327	.00335
6.0	.00270	.00277	.00283	.00290	.00297	.00303	.00311	.00318	.00325	.00333	.00340
6.2	.00275	.00281	.00288	.00295	.00301	.00308	.00316	.00323	.00330	.00338	.00346
6.4	.00279	.00286	.00292	.00299	.00306	.00313	.00321	.00328	.00336	.00344	.00352
6.6	.00284	.00290	.00297	.00304	.00311	.00318	.00326	.00333	.00341	.00349	.00357
6.8	.00288	.00295	.00302	.00309	.00316	.00324	.00331	.00339	.00347	.00355	.00363
7.0	.00293	.00300	.00307	.00314	.00321	.00329	.00337	.00344	.00352	.00361	.00369

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.30	5.31	5.32	5.33	5.34	5.35	5.36	5.37	5.38	5.39	5.40
7.0	.00293	.00300	.00307	.00314	.00321	.00329	.00337	.00344	.00352	.00361	.00369
7.2	.00298	.00305	.00312	.00319	.00327	.00334	.00342	.00350	.00358	.00366	.00375
7.4	.00303	.00310	.00317	.00324	.00332	.00340	.00347	.00356	.00364	.00372	.00381
7.6	.00307	.00315	.00322	.00329	.00337	.00345	.00353	.00361	.00370	.00378	.00387
7.8	.00312	.00320	.00327	.00335	.00343	.00351	.00359	.00367	.00376	.00384	.00393
8.0	.00317	.00325	.00332	.00340	.00348	.00356	.00364	.00373	.00382	.00391	.00400
8.2	.00322	.00330	.00338	.00346	.00354	.00362	.00370	.00379	.00388	.00397	.00406
8.4	.00328	.00335	.00343	.00351	.00359	.00368	.00376	.00385	.00394	.00403	.00412
8.6	.00333	.00341	.00349	.00357	.00365	.00374	.00382	.00391	.00400	.00410	.00419
8.8	.00338	.00346	.00354	.00362	.00371	.00379	.00388	.00397	.00407	.00416	.00426
9.0	.00344	.00352	.00360	.00368	.00377	.00385	.00394	.00404	.00413	.00423	.00433
9.2	.00349	.00357	.00365	.00374	.00383	.00392	.00401	.00410	.00420	.00429	.00439
9.4	.00355	.00363	.00371	.00380	.00389	.00398	.00407	.00417	.00426	.00436	.00446
9.6	.00360	.00369	.00377	.00386	.00395	.00404	.00414	.00423	.00433	.00443	.00453
9.8	.00366	.00374	.00383	.00392	.00401	.00411	.00420	.00430	.00440	.00450	.00461
10.0	.00372	.00380	.00389	.00398	.00408	.00417	.00427	.00437	.00447	.00457	.00468
10.2	.00378	.00386	.00395	.00405	.00414	.00424	.00433	.00444	.00454	.00464	.00475
10.4	.00383	.00392	.00402	.00411	.00420	.00430	.00440	.00451	.00461	.00472	.00483
10.6	.00390	.00399	.00408	.00417	.00427	.00437	.00447	.00458	.00468	.00479	.00490
10.8	.00396	.00405	.00414	.00424	.00434	.00444	.00454	.00465	.00476	.00487	.00498
11.0	.00402	.00411	.00421	.00431	.00441	.00451	.00461	.00472	.00483	.00494	.00506
11.2	.00408	.00418	.00427	.00437	.00448	.00458	.00469	.00480	.00491	.00502	.00514
11.4	.00415	.00424	.00434	.00444	.00455	.00465	.00476	.00487	.00498	.00510	.00522
11.6	.00421	.00431	.00441	.00451	.00462	.00472	.00483	.00495	.00506	.00518	.00530
11.8	.00428	.00438	.00448	.00458	.00469	.00480	.00491	.00502	.00514	.00526	.00538
12.0	.00434	.00444	.00455	.00465	.00476	.00487	.00499	.00510	.00522	.00534	.00547
12.2	.00441	.00451	.00462	.00473	.00484	.00495	.00506	.00518	.00530	.00543	.00555
12.4	.00448	.00458	.00469	.00480	.00491	.00503	.00514	.00526	.00538	.00551	.00564
12.6	.00455	.00465	.00476	.00487	.00499	.00510	.00522	.00534	.00547	.00560	.00573
12.8	.00462	.00473	.00484	.00495	.00506	.00518	.00530	.00543	.00555	.00568	.00581
13.0	.00469	.00480	.00491	.00503	.00514	.00526	.00538	.00551	.00564	.00577	.00590
13.2	.00476	.00487	.00499	.00510	.00522	.00534	.00547	.00560	.00573	.00586	.00600
13.4	.00484	.00495	.00506	.00518	.00530	.00543	.00555	.00568	.00581	.00595	.00609
13.6	.00491	.00502	.00514	.00526	.00538	.00551	.00564	.00577	.00590	.00604	.00618
13.8	.00499	.00510	.00522	.00534	.00547	.00559	.00572	.00586	.00599	.00613	.00628
14.0	.00506	.00518	.00530	.00542	.00555	.00568	.00581	.00595	.00609	.00623	.00637

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.30	5.31	5.32	5.33	5.34	5.35	5.36	5.37	5.38	5.39	5.40
14.0	.00506	.00518	.00530	.00542	.00555	.00568	.00581	.00595	.00609	.00623	.00637
14.2	.00514	.00526	.00538	.00551	.00564	.00577	.00590	.00604	.00618	.00632	.00647
14.4	.00522	.00534	.00547	.00559	.00572	.00586	.00599	.00613	.00627	.00642	.00657
14.6	.00530	.00542	.00555	.00568	.00581	.00595	.00608	.00623	.00637	.00652	.00667
14.8	.00538	.00551	.00563	.00576	.00590	.00604	.00618	.00632	.00647	.00662	.00677
15.0	.00546	.00559	.00572	.00585	.00599	.00613	.00627	.00642	.00657	.00672	.00688
15.2	.00555	.00567	.00581	.00594	.00608	.00622	.00637	.00652	.00667	.00682	.00698
15.4	.00563	.00576	.00590	.00603	.00617	.00632	.00646	.00661	.00677	.00693	.00709
15.6	.00572	.00585	.00598	.00612	.00627	.00641	.00656	.00671	.00687	.00703	.00719
15.8	.00580	.00594	.00608	.00622	.00636	.00651	.00666	.00682	.00698	.00714	.00730
16.0	.00589	.00603	.00617	.00631	.00646	.00661	.00676	.00692	.00708	.00725	.00741
16.2	.00598	.00612	.00626	.00641	.00656	.00671	.00686	.00702	.00719	.00736	.00753
16.4	.00607	.00621	.00636	.00650	.00665	.00681	.00697	.00713	.00730	.00747	.00764
16.6	.00616	.00630	.00645	.00660	.00676	.00691	.00707	.00724	.00741	.00758	.00776
16.8	.00625	.00640	.00655	.00670	.00686	.00702	.00718	.00735	.00752	.00769	.00787
17.0	.00635	.00650	.00665	.00680	.00696	.00712	.00729	.00746	.00763	.00781	.00799
17.2	.00644	.00659	.00675	.00690	.00706	.00723	.00740	.00757	.00775	.00793	.00811
17.4	.00654	.00669	.00685	.00701	.00717	.00734	.00751	.00768	.00786	.00805	.00823
17.6	.00664	.00679	.00695	.00711	.00728	.00745	.00762	.00780	.00798	.00817	.00836
17.8	.00674	.00689	.00705	.00722	.00739	.00756	.00774	.00792	.00810	.00829	.00848
18.0	.00684	.00700	.00716	.00733	.00750	.00767	.00785	.00803	.00822	.00841	.00861
18.2	.00694	.00710	.00727	.00744	.00761	.00779	.00797	.00815	.00834	.00854	.00874
18.4	.00704	.00721	.00738	.00755	.00772	.00790	.00809	.00828	.00847	.00867	.00887
18.6	.00715	.00731	.00748	.00766	.00784	.00802	.00821	.00840	.00859	.00879	.00900
18.8	.00725	.00742	.00760	.00777	.00795	.00814	.00833	.00852	.00872	.00892	.00913
19.0	.00736	.00753	.00771	.00789	.00807	.00826	.00845	.00865	.00885	.00906	.00927
19.2	.00747	.00765	.00782	.00801	.00819	.00838	.00858	.00878	.00898	.00919	.00941
19.4	.00758	.00776	.00794	.00812	.00831	.00851	.00870	.00891	.00912	.00933	.00954
19.6	.00769	.00787	.00806	.00824	.00844	.00863	.00883	.00904	.00925	.00947	.00969
19.8	.00781	.00799	.00818	.00837	.00856	.00876	.00896	.00917	.00939	.00960	.00983
20.0	.00792	.00811	.00830	.00849	.00869	.00889	.00910	.00931	.00952	.00975	.00997
20.2	.00804	.00823	.00842	.00861	.00881	.00902	.00923	.00944	.00966	.00989	.01012
20.4	.00816	.00835	.00854	.00874	.00894	.00915	.00937	.00958	.00981	.01004	.01027
20.6	.00828	.00847	.00867	.00887	.00908	.00929	.00950	.00972	.00995	.01018	.01042
20.8	.00840	.00859	.00879	.00900	.00921	.00942	.00964	.00987	.01010	.01033	.01057
21.0	.00852	.00872	.00892	.00913	.00934	.00956	.00978	.01001	.01024	.01048	.01073

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.30	5.31	5.32	5.33	5.34	5.35	5.36	5.37	5.38	5.39	5.40
21.0	.00852	.00872	.00892	.00913	.00934	.00956	.00978	.01001	.01024	.01048	.01073
21.2	.00865	.00885	.00905	.00926	.00948	.00970	.00993	.01016	.01039	.01064	.01088
21.4	.00877	.00898	.00919	.00940	.00962	.00984	.01007	.01031	.01055	.01079	.01104
21.6	.00890	.00911	.00932	.00954	.00976	.00999	.01022	.01046	.01070	.01095	.01120
21.8	.00903	.00924	.00945	.00967	.00990	.01013	.01037	.01061	.01086	.01111	.01137
22.0	.00916	.00937	.00959	.00982	.01004	.01028	.01052	.01076	.01101	.01127	.01153
22.2	.00929	.00951	.00973	.00996	.01019	.01043	.01067	.01092	.01117	.01143	.01170
22.4	.00943	.00965	.00987	.01010	.01034	.01058	.01082	.01108	.01133	.01160	.01187
22.6	.00956	.00979	.01002	.01025	.01049	.01073	.01098	.01124	.01150	.01177	.01204
22.8	.00970	.00993	.01016	.01040	.01064	.01089	.01114	.01140	.01167	.01194	.01221
23.0	.00984	.01007	.01031	.01055	.01079	.01104	.01130	.01156	.01183	.01211	.01239
23.2	.00998	.01022	.01046	.01070	.01095	.01120	.01146	.01173	.01200	.01228	.01257
23.4	.0101	.0104	.0106	.0109	.0111	.0114	.0116	.0119	.0122	.0125	.0128
23.6	.0103	.0105	.0108	.0110	.0113	.0115	.0118	.0121	.0124	.0126	.0129
23.8	.0104	.0107	.0109	.0112	.0114	.0117	.0120	.0122	.0125	.0128	.0131
24.0	.0106	.0108	.0111	.0113	.0116	.0119	.0121	.0124	.0127	.0130	.0133
24.2	.0107	.0110	.0112	.0115	.0118	.0120	.0123	.0126	.0129	.0132	.0135
24.4	.0109	.0111	.0114	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137
24.6	.0110	.0113	.0116	.0118	.0121	.0124	.0127	.0130	.0133	.0136	.0139
24.8	.0112	.0114	.0117	.0120	.0123	.0126	.0128	.0131	.0135	.0138	.0141
25.0	.0113	.0116	.0119	.0122	.0124	.0127	.0130	.0133	.0136	.0140	.0143
25.2	.0115	.0118	.0121	.0123	.0126	.0129	.0132	.0135	.0138	.0142	.0145
25.4	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0144	.0147
25.6	.0118	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0146	.0149
25.8	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0144	.0148	.0151
26.0	.0122	.0125	.0127	.0130	.0134	.0137	.0140	.0143	.0146	.0150	.0153
26.2	.0123	.0126	.0129	.0132	.0135	.0139	.0142	.0145	.0148	.0152	.0155
26.4	.0125	.0128	.0131	.0134	.0137	.0141	.0144	.0147	.0151	.0154	.0158
26.6	.0127	.0130	.0133	.0136	.0139	.0142	.0146	.0149	.0153	.0156	.0160
26.8	.0129	.0132	.0135	.0138	.0141	.0144	.0148	.0151	.0155	.0158	.0162
27.0	.0131	.0134	.0137	.0140	.0143	.0147	.0150	.0153	.0157	.0161	.0164
27.2	.0132	.0136	.0139	.0142	.0145	.0149	.0152	.0156	.0159	.0163	.0167
27.4	.0134	.0137	.0141	.0144	.0147	.0151	.0154	.0158	.0161	.0165	.0169
27.6	.0136	.0139	.0143	.0146	.0149	.0153	.0156	.0160	.0164	.0167	.0171
27.8	.0138	.0141	.0145	.0148	.0151	.0155	.0159	.0162	.0166	.0170	.0174
28.0	.0140	.0143	.0147	.0150	.0153	.0157	.0161	.0164	.0168	.0172	.0176

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.30	5.31	5.32	5.33	5.34	5.35	5.36	5.37	5.38	5.39	5.40
28.0	.0140	.0143	.0147	.0150	.0153	.0157	.0161	.0164	.0168	.0172	.0176
28.2	.0142	.0145	.0149	.0152	.0156	.0159	.0163	.0167	.0171	.0175	.0179
28.4	.0144	.0147	.0151	.0154	.0158	.0161	.0165	.0169	.0173	.0177	.0181
28.6	.0146	.0149	.0153	.0156	.0160	.0164	.0168	.0171	.0175	.0180	.0184
28.8	.0148	.0151	.0155	.0159	.0162	.0166	.0170	.0174	.0178	.0182	.0186
29.0	.0150	.0153	.0157	.0161	.0164	.0168	.0172	.0176	.0180	.0185	.0189
29.2	.0152	.0156	.0159	.0163	.0167	.0171	.0175	.0179	.0183	.0187	.0191
29.4	.0154	.0158	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0190	.0194
29.6	.0156	.0160	.0164	.0167	.0171	.0175	.0179	.0184	.0188	.0192	.0197
29.8	.0158	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0190	.0195	.0199
30.0	.0161	.0164	.0168	.0172	.0176	.0180	.0184	.0189	.0193	.0198	.0202
30.2	.0163	.0167	.0171	.0174	.0179	.0183	.0187	.0191	.0196	.0200	.0205
30.4	.0165	.0169	.0173	.0177	.0181	.0185	.0190	.0194	.0198	.0203	.0208
30.6	.0167	.0171	.0175	.0179	.0183	.0188	.0192	.0197	.0201	.0206	.0211
30.8	.0170	.0174	.0178	.0182	.0186	.0190	.0195	.0199	.0204	.0209	.0214
31.0	.0172	.0176	.0180	.0184	.0189	.0193	.0197	.0202	.0207	.0212	.0216
31.2	.0174	.0178	.0183	.0187	.0191	.0196	.0200	.0205	.0210	.0214	.0219
31.4	.0177	.0181	.0185	.0189	.0194	.0198	.0203	.0208	.0212	.0217	.0222
31.6	.0179	.0183	.0188	.0192	.0196	.0201	.0206	.0210	.0215	.0220	.0225
31.8	.0182	.0186	.0190	.0195	.0199	.0204	.0208	.0213	.0218	.0223	.0229
32.0	.0184	.0188	.0193	.0197	.0202	.0206	.0211	.0216	.0221	.0226	.0232
32.2	.0186	.0191	.0195	.0200	.0204	.0209	.0214	.0219	.0224	.0229	.0235
32.4	.0189	.0193	.0198	.0203	.0207	.0212	.0217	.0222	.0227	.0233	.0238
32.6	.0192	.0196	.0201	.0205	.0210	.0215	.0220	.0225	.0230	.0236	.0241
32.8	.0194	.0199	.0203	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244
33.0	.0197	.0201	.0206	.0211	.0216	.0221	.0226	.0231	.0237	.0242	.0248
33.2	.0199	.0204	.0209	.0214	.0219	.0224	.0229	.0234	.0240	.0245	.0251
33.4	.0202	.0207	.0212	.0217	.0222	.0227	.0232	.0237	.0243	.0249	.0254
33.6	.0205	.0210	.0215	.0220	.0225	.0230	.0235	.0241	.0246	.0252	.0258
33.8	.0208	.0212	.0217	.0222	.0228	.0233	.0238	.0244	.0250	.0255	.0261
34.0	.0210	.0215	.0220	.0225	.0231	.0236	.0242	.0247	.0253	.0259	.0265
34.2	.0213	.0218	.0223	.0228	.0234	.0239	.0245	.0250	.0256	.0262	.0268
34.4	.0216	.0221	.0226	.0232	.0237	.0242	.0248	.0254	.0260	.0266	.0272
34.6	.0219	.0224	.0229	.0235	.0240	.0246	.0251	.0257	.0263	.0269	.0276
34.8	.0222	.0227	.0232	.0238	.0243	.0249	.0255	.0261	.0267	.0273	.0279
35.0	.0225	.0230	.0235	.0241	.0247	.0252	.0258	.0264	.0270	.0277	.0283

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.30	5.31	5.32	5.33	5.34	5.35	5.36	5.37	5.38	5.39	5.40
35.0	.0225	.0230	.0235	.0241	.0247	.0252	.0258	.0264	.0270	.0277	.0283
35.2	.0228	.0233	.0239	.0244	.0250	.0256	.0262	.0268	.0274	.0280	.0287
35.4	.0231	.0236	.0242	.0247	.0253	.0259	.0265	.0271	.0278	.0284	.0291
35.6	.0234	.0239	.0245	.0251	.0256	.0262	.0269	.0275	.0281	.0288	.0294
35.8	.0237	.0243	.0248	.0254	.0260	.0266	.0272	.0278	.0285	.0292	.0298
36.0	.0240	.0246	.0251	.0257	.0263	.0269	.0276	.0282	.0289	.0295	.0302
36.2	.0243	.0249	.0255	.0261	.0267	.0273	.0279	.0286	.0293	.0299	.0306
36.4	.0247	.0252	.0258	.0264	.0270	.0277	.0283	.0290	.0296	.0303	.0310
36.6	.0250	.0256	.0262	.0268	.0274	.0280	.0287	.0293	.0300	.0307	.0314
36.8	.0253	.0259	.0265	.0271	.0277	.0284	.0291	.0297	.0304	.0311	.0319
37.0	.0256	.0262	.0268	.0275	.0281	.0288	.0294	.0301	.0308	.0315	.0323
37.2	.0260	.0266	.0272	.0278	.0285	.0291	.0298	.0305	.0312	.0320	.0327
37.4	.0263	.0269	.0276	.0282	.0289	.0295	.0302	.0309	.0316	.0324	.0331
37.6	.0267	.0273	.0279	.0286	.0292	.0299	.0306	.0313	.0321	.0328	.0336
37.8	.0270	.0276	.0283	.0289	.0296	.0303	.0310	.0317	.0325	.0332	.0340
38.0	.0274	.0280	.0287	.0293	.0300	.0307	.0314	.0321	.0329	.0337	.0344
38.2	.0277	.0284	.0290	.0297	.0304	.0311	.0318	.0326	.0333	.0341	.0349
38.4	.0281	.0287	.0294	.0301	.0308	.0315	.0322	.0330	.0338	.0345	.0354
38.6	.0284	.0291	.0298	.0305	.0312	.0319	.0327	.0334	.0342	.0350	.0358
38.8	.0288	.0295	.0302	.0309	.0316	.0323	.0331	.0339	.0346	.0355	.0363
39.0	.0292	.0299	.0306	.0313	.0320	.0328	.0335	.0343	.0351	.0359	.0367
39.2	.0296	.0303	.0310	.0317	.0324	.0332	.0340	.0347	.0356	.0364	.0372
39.4	.0300	.0307	.0314	.0321	.0328	.0336	.0344	.0352	.0360	.0369	.0377
39.6	.0303	.0310	.0318	.0325	.0333	.0340	.0348	.0356	.0365	.0373	.0382
39.8	.0307	.0315	.0322	.0329	.0337	.0345	.0353	.0361	.0369	.0378	.0387
40.0	.0311	.0319	.0326	.0334	.0341	.0349	.0357	.0366	.0374	.0383	.0392

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.40	5.41	5.42	5.43	5.44	5.45	5.46	5.47	5.48	5.49	5.50
.0	.00208	.00213	.00217	.00223	.00228	.00233	.00238	.00244	.00250	.00256	.00261
.2	.00211	.00216	.00221	.00226	.00232	.00237	.00243	.00248	.00254	.00260	.00266
.4	.00215	.00220	.00225	.00230	.00236	.00241	.00247	.00252	.00258	.00264	.00270
.6	.00218	.00224	.00229	.00234	.00240	.00245	.00251	.00257	.00263	.00269	.00275
.8	.00222	.00227	.00233	.00238	.00244	.00249	.00255	.00261	.00267	.00273	.00280
1.0	.00226	.00231	.00237	.00242	.00248	.00253	.00259	.00265	.00272	.00278	.00284
1.2	.00230	.00235	.00240	.00246	.00252	.00258	.00264	.00270	.00276	.00283	.00289
1.4	.00234	.00239	.00245	.00250	.00256	.00262	.00268	.00274	.00281	.00287	.00294
1.6	.00237	.00243	.00249	.00254	.00260	.00266	.00273	.00279	.00285	.00292	.00299
1.8	.00241	.00247	.00253	.00259	.00265	.00271	.00277	.00284	.00290	.00297	.00304
2.0	.00245	.00251	.00257	.00263	.00269	.00275	.00282	.00288	.00295	.00302	.00309
2.2	.00250	.00255	.00261	.00267	.00274	.00280	.00287	.00293	.00300	.00307	.00314
2.4	.00254	.00260	.00266	.00272	.00278	.00285	.00291	.00298	.00305	.00312	.00319
2.6	.00258	.00264	.00270	.00276	.00283	.00289	.00296	.00303	.00310	.00317	.00325
2.8	.00262	.00268	.00275	.00281	.00288	.00294	.00301	.00308	.00315	.00323	.00330
3.0	.00267	.00273	.00279	.00286	.00292	.00299	.00306	.00313	.00321	.00328	.00336
3.2	.00271	.00277	.00284	.00290	.00297	.00304	.00311	.00318	.00326	.00333	.00341
3.4	.00276	.00282	.00289	.00295	.00302	.00309	.00316	.00324	.00331	.00339	.00347
3.6	.00280	.00287	.00293	.00300	.00307	.00314	.00322	.00329	.00337	.00345	.00353
3.8	.00285	.00291	.00298	.00305	.00312	.00319	.00327	.00335	.00342	.00350	.00358
4.0	.00289	.00296	.00303	.00310	.00317	.00325	.00332	.00340	.00348	.00356	.00364
4.2	.00294	.00301	.00308	.00315	.00323	.00330	.00338	.00346	.00354	.00362	.00370
4.4	.00299	.00306	.00313	.00320	.00328	.00336	.00343	.00351	.00360	.00368	.00376
4.6	.00304	.00311	.00318	.00326	.00333	.00341	.00349	.00357	.00365	.00374	.00383
4.8	.00309	.00316	.00324	.00331	.00339	.00347	.00355	.00363	.00371	.00380	.00389
5.0	.00314	.00321	.00329	.00336	.00344	.00352	.00361	.00369	.00378	.00386	.00395
5.2	.00319	.00327	.00334	.00342	.00350	.00358	.00366	.00375	.00384	.00393	.00402
5.4	.00324	.00332	.00340	.00348	.00356	.00364	.00372	.00381	.00390	.00399	.00408
5.6	.00330	.00337	.00345	.00353	.00361	.00370	.00379	.00387	.00396	.00406	.00415
5.8	.00335	.00343	.00351	.00359	.00367	.00376	.00385	.00394	.00403	.00412	.00422
6.0	.00340	.00348	.00357	.00365	.00373	.00382	.00391	.00400	.00409	.00419	.00429
6.2	.00346	.00354	.00362	.00371	.00379	.00388	.00397	.00407	.00416	.00426	.00436
6.4	.00352	.00360	.00368	.00377	.00386	.00395	.00404	.00413	.00423	.00433	.00443
6.6	.00357	.00366	.00374	.00383	.00392	.00401	.00410	.00420	.00430	.00440	.00450
6.8	.00363	.00372	.00380	.00389	.00398	.00407	.00417	.00427	.00437	.00447	.00457
7.0	.00369	.00378	.00386	.00395	.00405	.00414	.00424	.00433	.00444	.00454	.00464

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.40	5.41	5.42	5.43	5.44	5.45	5.46	5.47	5.48	5.49	5.50
7.0	.00369	.00378	.00386	.00395	.00405	.00414	.00424	.00433	.00444	.00454	.00464
7.2	.00375	.00384	.00393	.00402	.00411	.00421	.00430	.00440	.00451	.00461	.00472
7.4	.00381	.00390	.00399	.00408	.00418	.00427	.00437	.00448	.00458	.00469	.00480
7.6	.00387	.00396	.00405	.00415	.00424	.00434	.00444	.00455	.00465	.00476	.00487
7.8	.00393	.00402	.00412	.00421	.00431	.00441	.00452	.00462	.00473	.00484	.00495
8.0	.00400	.00409	.00418	.00428	.00438	.00448	.00459	.00469	.00480	.00492	.00503
8.2	.00406	.00415	.00425	.00435	.00445	.00456	.00466	.00477	.00488	.00499	.00511
8.4	.00412	.00422	.00432	.00442	.00452	.00463	.00474	.00485	.00496	.00507	.00519
8.6	.00419	.00429	.00439	.00449	.00460	.00470	.00481	.00492	.00504	.00516	.00528
8.8	.00426	.00436	.00446	.00456	.00467	.00478	.00489	.00500	.00512	.00524	.00536
9.0	.00433	.00443	.00453	.00463	.00474	.00485	.00497	.00508	.00520	.00532	.00545
9.2	.00439	.00450	.00460	.00471	.00482	.00493	.00505	.00516	.00528	.00541	.00553
9.4	.00446	.00457	.00467	.00478	.00489	.00501	.00513	.00524	.00537	.00549	.00562
9.6	.00453	.00464	.00475	.00486	.00497	.00509	.00521	.00533	.00545	.00558	.00571
9.8	.00461	.00471	.00482	.00494	.00505	.00517	.00529	.00541	.00554	.00567	.00580
10.0	.00468	.00479	.00490	.00501	.00513	.00525	.00537	.00550	.00563	.00576	.00589
10.2	.00475	.00486	.00498	.00509	.00521	.00533	.00546	.00558	.00571	.00585	.00598
10.4	.00483	.00494	.00506	.00517	.00529	.00542	.00554	.00567	.00580	.00594	.00608
10.6	.00490	.00502	.00513	.00525	.00538	.00550	.00563	.00576	.00590	.00603	.00617
10.8	.00498	.00510	.00522	.00534	.00546	.00559	.00572	.00585	.00599	.00613	.00627
11.0	.00506	.00518	.00530	.00542	.00555	.00568	.00581	.00594	.00608	.00622	.00637
11.2	.00514	.00526	.00538	.00551	.00563	.00577	.00590	.00604	.00618	.00632	.00647
11.4	.00522	.00534	.00546	.00559	.00572	.00586	.00599	.00613	.00627	.00642	.00657
11.6	.00530	.00542	.00555	.00568	.00581	.00595	.00609	.00623	.00637	.00652	.00667
11.8	.00538	.00551	.00564	.00577	.00590	.00604	.00618	.00632	.00647	.00662	.00678
12.0	.00547	.00559	.00572	.00586	.00599	.00613	.00628	.00642	.00657	.00673	.00688
12.2	.00555	.00568	.00581	.00595	.00609	.00623	.00637	.00652	.00667	.00683	.00699
12.4	.00564	.00577	.00590	.00604	.00618	.00633	.00647	.00662	.00678	.00694	.00710
12.6	.00573	.00586	.00600	.00614	.00628	.00642	.00657	.00673	.00688	.00704	.00721
12.8	.00581	.00595	.00609	.00623	.00638	.00652	.00668	.00683	.00699	.00715	.00732
13.0	.00590	.00604	.00618	.00633	.00647	.00662	.00678	.00694	.00710	.00726	.00743
13.2	.00600	.00614	.00628	.00642	.00657	.00673	.00688	.00704	.00721	.00738	.00755
13.4	.00609	.00623	.00638	.00652	.00668	.00683	.00699	.00715	.00732	.00749	.00766
13.6	.00618	.00633	.00647	.00662	.00678	.00694	.00710	.00726	.00743	.00761	.00778
13.8	.00628	.00642	.00657	.00673	.00688	.00704	.00721	.00737	.00755	.00772	.00790
14.0	.00637	.00652	.00667	.00683	.00699	.00715	.00732	.00749	.00766	.00784	.00802

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.40	5.41	5.42	5.43	5.44	5.45	5.46	5.47	5.48	5.49	5.50
14.0	.00637	.00652	.00667	.00683	.00699	.00715	.00732	.00749	.00766	.00784	.00802
14.2	.00647	.00662	.00678	.00693	.00710	.00726	.00743	.00760	.00778	.00796	.00815
14.4	.00657	.00672	.00688	.00704	.00720	.00737	.00754	.00772	.00790	.00808	.00827
14.6	.00667	.00683	.00699	.00715	.00731	.00748	.00766	.00784	.00802	.00821	.00840
14.8	.00677	.00693	.00709	.00726	.00743	.00760	.00778	.00796	.00814	.00833	.00853
15.0	.00688	.00704	.00720	.00737	.00754	.00772	.00789	.00808	.00827	.00846	.00866
15.2	.00698	.00714	.00731	.00748	.00765	.00783	.00802	.00820	.00839	.00859	.00879
15.4	.00709	.00725	.00742	.00759	.00777	.00795	.00814	.00833	.00852	.00872	.00892
15.6	.00719	.00736	.00753	.00771	.00789	.00807	.00826	.00845	.00865	.00885	.00906
15.8	.00730	.00747	.00765	.00783	.00801	.00820	.00839	.00858	.00878	.00899	.00920
16.0	.00741	.00759	.00776	.00795	.00813	.00832	.00851	.00871	.00891	.00912	.00933
16.2	.00753	.00770	.00788	.00807	.00825	.00845	.00864	.00884	.00905	.00926	.00948
16.4	.00764	.00782	.00800	.00819	.00838	.00857	.00877	.00898	.00919	.00940	.00962
16.6	.00776	.00794	.00812	.00831	.00850	.00870	.00890	.00911	.00932	.00954	.00976
16.8	.00787	.00806	.00824	.00844	.00863	.00883	.00904	.00925	.00947	.00969	.00991
17.0	.00799	.00818	.00837	.00856	.00876	.00897	.00918	.00939	.00961	.00983	.01006
17.2	.00811	.00830	.00849	.00869	.00889	.00910	.00931	.00953	.00975	.00998	.01021
17.4	.00823	.00842	.00862	.00882	.00903	.00924	.00945	.00967	.00990	.01013	.01036
17.6	.00836	.00855	.00875	.00895	.00916	.00938	.00959	.00982	.01005	.01028	.01052
17.8	.00848	.00868	.00888	.00909	.00930	.00952	.00974	.00996	.01020	.01043	.01068
18.0	.00861	.00881	.00901	.00922	.00944	.00966	.00988	.01011	.01035	.01059	.01084
18.2	.00874	.00894	.00915	.00936	.00958	.00980	.01003	.01026	.01050	.01075	.01100
18.4	.00887	.00907	.00928	.00950	.00972	.00995	.01018	.01042	.01066	.01091	.01116
18.6	.00900	.00921	.00942	.00964	.00987	.01010	.01033	.01057	.01082	.01107	.01133
18.8	.00913	.00935	.00956	.00979	.01001	.01025	.01049	.01073	.01098	.01124	.01150
19.0	.00927	.00948	.00970	.00993	.01016	.01040	.01064	.01089	.01114	.01140	.01167
19.2	.00941	.00962	.00985	.01008	.01031	.01055	.01080	.01105	.01131	.01157	.01184
19.4	.00954	.00977	.00999	.01023	.01047	.01071	.01096	.01121	.01147	.01174	.01202
19.6	.00969	.00991	.01014	.01038	.01062	.01087	.01112	.01138	.01164	.01192	.01219
19.8	.00983	.01006	.01029	.01053	.01078	.01103	.01128	.01155	.01182	.01209	.01237
20.0	.00997	.01021	.01044	.01069	.01094	.01119	.01145	.01172	.01199	.01227	.01256
20.2	.0101	.0104	.0106	.0108	.0111	.0114	.0116	.0119	.0122	.0125	.0127
20.4	.0103	.0105	.0108	.0110	.0113	.0115	.0118	.0121	.0123	.0126	.0129
20.6	.0104	.0107	.0109	.0112	.0114	.0117	.0120	.0122	.0125	.0128	.0131
20.8	.0106	.0108	.0111	.0113	.0116	.0119	.0121	.0124	.0127	.0130	.0133
21.0	.0107	.0110	.0112	.0115	.0118	.0120	.0123	.0126	.0129	.0132	.0135

TEMP DEG C	PH 5.40	5.41	5.42	5.43	5.44	5.45	5.46	5.47	5.48	5.49	5.50
21.0	.0107	.0110	.0112	.0115	.0118	.0120	.0123	.0126	.0129	.0132	.0135
21.2	.0109	.0111	.0114	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137
21.4	.0110	.0113	.0116	.0118	.0121	.0124	.0127	.0130	.0133	.0136	.0139
21.6	.0112	.0115	.0117	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141
21.8	.0114	.0116	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0143
22.0	.0115	.0118	.0121	.0124	.0126	.0129	.0132	.0135	.0139	.0142	.0145
22.2	.0117	.0120	.0123	.0125	.0128	.0131	.0134	.0137	.0141	.0144	.0147
22.4	.0119	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0143	.0146	.0149
22.6	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0145	.0148	.0152
22.8	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0144	.0147	.0150	.0154
23.0	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0146	.0149	.0152	.0156
23.2	.0126	.0129	.0132	.0135	.0138	.0141	.0144	.0148	.0151	.0155	.0158
23.4	.0128	.0130	.0134	.0137	.0140	.0143	.0146	.0150	.0153	.0157	.0161
23.6	.0129	.0132	.0135	.0139	.0142	.0145	.0149	.0152	.0155	.0159	.0163
23.8	.0131	.0134	.0137	.0141	.0144	.0147	.0151	.0154	.0158	.0161	.0165
24.0	.0133	.0136	.0139	.0143	.0146	.0149	.0153	.0156	.0160	.0164	.0168
24.2	.0135	.0138	.0141	.0145	.0148	.0151	.0155	.0159	.0162	.0166	.0170
24.4	.0137	.0140	.0143	.0147	.0150	.0154	.0157	.0161	.0165	.0168	.0172
24.6	.0139	.0142	.0145	.0149	.0152	.0156	.0159	.0163	.0167	.0171	.0175
24.8	.0141	.0144	.0147	.0151	.0154	.0158	.0162	.0165	.0169	.0173	.0177
25.0	.0143	.0146	.0150	.0153	.0157	.0160	.0164	.0168	.0172	.0176	.0180
25.2	.0145	.0148	.0152	.0155	.0159	.0163	.0166	.0170	.0174	.0178	.0182
25.4	.0147	.0150	.0154	.0157	.0161	.0165	.0169	.0173	.0177	.0181	.0185
25.6	.0149	.0153	.0156	.0160	.0163	.0167	.0171	.0175	.0179	.0183	.0188
25.8	.0151	.0155	.0158	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0190
26.0	.0153	.0157	.0161	.0164	.0168	.0172	.0176	.0180	.0184	.0189	.0193
26.2	.0155	.0159	.0163	.0167	.0170	.0174	.0178	.0183	.0187	.0191	.0196
26.4	.0158	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0190	.0194	.0198
26.6	.0160	.0164	.0167	.0171	.0175	.0179	.0184	.0188	.0192	.0197	.0201
26.8	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0190	.0195	.0199	.0204
27.0	.0164	.0168	.0172	.0176	.0180	.0184	.0189	.0193	.0198	.0202	.0207
27.2	.0167	.0171	.0175	.0179	.0183	.0187	.0191	.0196	.0200	.0205	.0210
27.4	.0169	.0173	.0177	.0181	.0185	.0190	.0194	.0199	.0203	.0208	.0213
27.6	.0171	.0175	.0179	.0184	.0188	.0192	.0197	.0201	.0206	.0211	.0216
27.8	.0174	.0178	.0182	.0186	.0191	.0195	.0200	.0204	.0209	.0214	.0219
28.0	.0176	.0180	.0185	.0189	.0193	.0198	.0202	.0207	.0212	.0217	.0222

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.40	5.41	5.42	5.43	5.44	5.45	5.46	5.47	5.48	5.49	5.50
28.0	.0176	.0180	.0185	.0189	.0193	.0198	.0202	.0207	.0212	.0217	.0222
28.2	.0179	.0183	.0187	.0191	.0196	.0200	.0205	.0210	.0215	.0220	.0225
28.4	.0181	.0185	.0190	.0194	.0199	.0203	.0208	.0213	.0218	.0223	.0228
28.6	.0184	.0188	.0192	.0197	.0201	.0206	.0211	.0216	.0221	.0226	.0231
28.8	.0186	.0191	.0195	.0200	.0204	.0209	.0214	.0219	.0224	.0229	.0234
29.0	.0189	.0193	.0198	.0202	.0207	.0212	.0217	.0222	.0227	.0232	.0238
29.2	.0191	.0196	.0200	.0205	.0210	.0215	.0220	.0225	.0230	.0235	.0241
29.4	.0194	.0199	.0203	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244
29.6	.0197	.0201	.0206	.0211	.0216	.0221	.0226	.0231	.0237	.0242	.0248
29.8	.0199	.0204	.0209	.0214	.0219	.0224	.0229	.0234	.0240	.0245	.0251
30.0	.0202	.0207	.0212	.0217	.0222	.0227	.0232	.0238	.0243	.0249	.0255
30.2	.0205	.0210	.0215	.0220	.0225	.0230	.0235	.0241	.0246	.0252	.0258
30.4	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244	.0250	.0256	.0262
30.6	.0211	.0216	.0221	.0226	.0231	.0236	.0242	.0248	.0253	.0259	.0265
30.8	.0214	.0219	.0224	.0229	.0234	.0240	.0245	.0251	.0257	.0263	.0269
31.0	.0216	.0222	.0227	.0232	.0237	.0243	.0249	.0254	.0260	.0266	.0273
31.2	.0219	.0225	.0230	.0235	.0241	.0246	.0252	.0258	.0264	.0270	.0276
31.4	.0222	.0228	.0233	.0238	.0244	.0250	.0255	.0261	.0267	.0274	.0280
31.6	.0225	.0231	.0236	.0242	.0247	.0253	.0259	.0265	.0271	.0277	.0284
31.8	.0229	.0234	.0239	.0245	.0251	.0256	.0262	.0268	.0275	.0281	.0288
32.0	.0232	.0237	.0243	.0248	.0254	.0260	.0266	.0272	.0278	.0285	.0292
32.2	.0235	.0240	.0246	.0252	.0257	.0263	.0270	.0276	.0282	.0289	.0296
32.4	.0238	.0243	.0249	.0255	.0261	.0267	.0273	.0280	.0286	.0293	.0300
32.6	.0241	.0247	.0253	.0258	.0264	.0271	.0277	.0283	.0290	.0297	.0304
32.8	.0244	.0250	.0256	.0262	.0268	.0274	.0281	.0287	.0294	.0301	.0308
33.0	.0248	.0254	.0259	.0265	.0272	.0278	.0284	.0291	.0298	.0305	.0312
33.2	.0251	.0257	.0263	.0269	.0275	.0282	.0288	.0295	.0302	.0309	.0316
33.4	.0254	.0260	.0266	.0273	.0279	.0286	.0292	.0299	.0306	.0313	.0320
33.6	.0258	.0264	.0270	.0276	.0283	.0289	.0296	.0303	.0310	.0317	.0325
33.8	.0261	.0267	.0274	.0280	.0287	.0293	.0300	.0307	.0314	.0322	.0329
34.0	.0265	.0271	.0277	.0284	.0290	.0297	.0304	.0311	.0318	.0326	.0333
34.2	.0268	.0275	.0281	.0288	.0294	.0301	.0308	.0315	.0323	.0330	.0338
34.4	.0272	.0278	.0285	.0291	.0298	.0305	.0312	.0320	.0327	.0335	.0342
34.6	.0276	.0282	.0289	.0295	.0302	.0309	.0316	.0324	.0331	.0339	.0347
34.8	.0279	.0286	.0292	.0299	.0306	.0313	.0321	.0328	.0336	.0344	.0352
35.0	.0283	.0290	.0296	.0303	.0310	.0318	.0325	.0333	.0340	.0348	.0356

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.40	5.41	5.42	5.43	5.44	5.45	5.46	5.47	5.48	5.49	5.50
35.0	.0283	.0290	.0296	.0303	.0310	.0318	.0325	.0333	.0340	.0348	.0356
35.2	.0287	.0293	.0300	.0307	.0314	.0322	.0329	.0337	.0345	.0353	.0361
35.4	.0291	.0297	.0304	.0311	.0319	.0326	.0334	.0341	.0349	.0357	.0366
35.6	.0294	.0301	.0308	.0316	.0323	.0330	.0338	.0346	.0354	.0362	.0371
35.8	.0298	.0305	.0312	.0320	.0327	.0335	.0343	.0351	.0359	.0367	.0376
36.0	.0302	.0309	.0317	.0324	.0331	.0339	.0347	.0355	.0363	.0372	.0381
36.2	.0306	.0313	.0321	.0328	.0336	.0344	.0352	.0360	.0368	.0377	.0386
36.4	.0310	.0318	.0325	.0333	.0340	.0348	.0356	.0365	.0373	.0382	.0391
36.6	.0314	.0322	.0329	.0337	.0345	.0353	.0361	.0369	.0378	.0387	.0396
36.8	.0319	.0326	.0334	.0341	.0349	.0357	.0366	.0374	.0383	.0392	.0401
37.0	.0323	.0330	.0338	.0346	.0354	.0362	.0371	.0379	.0388	.0397	.0406
37.2	.0327	.0335	.0342	.0350	.0359	.0367	.0375	.0384	.0393	.0402	.0412
37.4	.0331	.0339	.0347	.0355	.0363	.0372	.0380	.0389	.0398	.0408	.0417
37.6	.0336	.0343	.0351	.0360	.0368	.0377	.0385	.0394	.0404	.0413	.0423
37.8	.0340	.0348	.0356	.0364	.0373	.0382	.0390	.0399	.0409	.0418	.0428
38.0	.0344	.0353	.0361	.0369	.0378	.0387	.0396	.0405	.0414	.0424	.0434
38.2	.0349	.0357	.0365	.0374	.0383	.0392	.0401	.0410	.0420	.0429	.0439
38.4	.0354	.0362	.0370	.0379	.0388	.0397	.0406	.0415	.0425	.0435	.0445
38.6	.0358	.0366	.0375	.0384	.0393	.0402	.0411	.0421	.0431	.0441	.0451
38.8	.0363	.0371	.0380	.0389	.0398	.0407	.0417	.0426	.0436	.0446	.0457
39.0	.0367	.0376	.0385	.0394	.0403	.0412	.0422	.0432	.0442	.0452	.0463
39.2	.0372	.0381	.0390	.0399	.0408	.0418	.0427	.0437	.0448	.0458	.0469
39.4	.0377	.0386	.0395	.0404	.0413	.0423	.0433	.0443	.0453	.0464	.0475
39.6	.0382	.0391	.0400	.0409	.0419	.0429	.0439	.0449	.0459	.0470	.0481
39.8	.0387	.0396	.0405	.0415	.0424	.0434	.0444	.0455	.0465	.0476	.0487
40.0	.0392	.0401	.0410	.0420	.0430	.0440	.0450	.0460	.0471	.0482	.0493

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.50	5.51	5.52	5.53	5.54	5.55	5.56	5.57	5.58	5.59	5.60
.0	.00261	.00268	.00274	.00280	.00287	.00293	.00300	.00307	.00314	.00322	.00329
.2	.00266	.00272	.00278	.00285	.00292	.00298	.00305	.00312	.00320	.00327	.00335
.4	.00270	.00277	.00283	.00290	.00296	.00303	.00310	.00318	.00325	.00333	.00340
.6	.00275	.00281	.00288	.00295	.00302	.00309	.00316	.00323	.00331	.00338	.00346
.8	.00280	.00286	.00293	.00300	.00307	.00314	.00321	.00329	.00336	.00344	.00352
1.0	.00284	.00291	.00298	.00305	.00312	.00319	.00326	.00334	.00342	.00350	.00358
1.2	.00289	.00296	.00303	.00310	.00317	.00324	.00332	.00340	.00348	.00356	.00364
1.4	.00294	.00301	.00308	.00315	.00322	.00330	.00338	.00345	.00353	.00362	.00370
1.6	.00299	.00306	.00313	.00320	.00328	.00335	.00343	.00351	.00359	.00368	.00376
1.8	.00304	.00311	.00318	.00326	.00333	.00341	.00349	.00357	.00365	.00374	.00383
2.0	.00309	.00316	.00324	.00331	.00339	.00347	.00355	.00363	.00372	.00380	.00389
2.2	.00314	.00322	.00329	.00337	.00345	.00353	.00361	.00369	.00378	.00387	.00396
2.4	.00319	.00327	.00335	.00342	.00350	.00358	.00367	.00375	.00384	.00393	.00402
2.6	.00325	.00332	.00340	.00348	.00356	.00364	.00373	.00382	.00390	.00400	.00409
2.8	.00330	.00338	.00346	.00354	.00362	.00370	.00379	.00388	.00397	.00406	.00416
3.0	.00336	.00343	.00351	.00360	.00368	.00377	.00385	.00394	.00404	.00413	.00423
3.2	.00341	.00349	.00357	.00366	.00374	.00383	.00392	.00401	.00410	.00420	.00430
3.4	.00347	.00355	.00363	.00372	.00380	.00389	.00398	.00408	.00417	.00427	.00437
3.6	.00353	.00361	.00369	.00378	.00387	.00396	.00405	.00414	.00424	.00434	.00444
3.8	.00358	.00367	.00375	.00384	.00393	.00402	.00412	.00421	.00431	.00441	.00451
4.0	.00364	.00373	.00382	.00390	.00400	.00409	.00418	.00428	.00438	.00448	.00459
4.2	.00370	.00379	.00388	.00397	.00406	.00416	.00425	.00435	.00445	.00456	.00466
4.4	.00376	.00385	.00394	.00403	.00413	.00422	.00432	.00442	.00453	.00463	.00474
4.6	.00383	.00392	.00401	.00410	.00420	.00429	.00439	.00450	.00460	.00471	.00482
4.8	.00389	.00398	.00407	.00417	.00426	.00436	.00447	.00457	.00468	.00479	.00490
5.0	.00395	.00405	.00414	.00424	.00433	.00444	.00454	.00464	.00475	.00486	.00498
5.2	.00402	.00411	.00421	.00431	.00441	.00451	.00461	.00472	.00483	.00494	.00506
5.4	.00408	.00418	.00428	.00438	.00448	.00458	.00469	.00480	.00491	.00502	.00514
5.6	.00415	.00425	.00435	.00445	.00455	.00466	.00477	.00488	.00499	.00511	.00522
5.8	.00422	.00432	.00442	.00452	.00462	.00473	.00484	.00496	.00507	.00519	.00531
6.0	.00429	.00439	.00449	.00459	.00470	.00481	.00492	.00504	.00515	.00527	.00540
6.2	.00436	.00446	.00456	.00467	.00478	.00489	.00500	.00512	.00524	.00536	.00548
6.4	.00443	.00453	.00464	.00474	.00485	.00497	.00508	.00520	.00532	.00545	.00557
6.6	.00450	.00460	.00471	.00482	.00493	.00505	.00516	.00529	.00541	.00553	.00566
6.8	.00457	.00468	.00479	.00490	.00501	.00513	.00525	.00537	.00550	.00562	.00575
7.0	.00464	.00475	.00486	.00498	.00509	.00521	.00533	.00546	.00558	.00571	.00585

TEMP DEG C	PH 5.50	5.51	5.52	5.53	5.54	5.55	5.56	5.57	5.58	5.59	5.60
7.0	.00464	.00475	.00486	.00498	.00509	.00521	.00533	.00546	.00558	.00571	.00585
7.2	.00472	.00483	.00494	.00506	.00518	.00530	.00542	.00555	.00567	.00581	.00594
7.4	.00480	.00491	.00502	.00514	.00526	.00538	.00551	.00563	.00577	.00590	.00604
7.6	.00487	.00499	.00510	.00522	.00534	.00547	.00559	.00573	.00586	.00599	.00613
7.8	.00495	.00507	.00518	.00531	.00543	.00556	.00568	.00582	.00595	.00609	.00623
8.0	.00503	.00515	.00527	.00539	.00552	.00564	.00578	.00591	.00605	.00619	.00633
8.2	.00511	.00523	.00535	.00548	.00560	.00573	.00587	.00601	.00614	.00629	.00643
8.4	.00519	.00531	.00544	.00556	.00569	.00583	.00596	.00610	.00624	.00639	.00654
8.6	.00528	.00540	.00552	.00565	.00578	.00592	.00606	.00620	.00634	.00649	.00664
8.8	.00536	.00548	.00561	.00574	.00588	.00601	.00615	.00630	.00644	.00659	.00675
9.0	.00545	.00557	.00570	.00583	.00597	.00611	.00625	.00640	.00655	.00670	.00685
9.2	.00553	.00566	.00579	.00593	.00607	.00621	.00635	.00650	.00665	.00681	.00696
9.4	.00562	.00575	.00588	.00602	.00616	.00631	.00645	.00660	.00676	.00691	.00707
9.6	.00571	.00584	.00598	.00612	.00626	.00641	.00655	.00671	.00686	.00702	.00719
9.8	.00580	.00593	.00607	.00621	.00636	.00651	.00666	.00681	.00697	.00713	.00730
10.0	.00589	.00603	.00617	.00631	.00646	.00661	.00676	.00692	.00708	.00725	.00742
10.2	.00598	.00612	.00627	.00641	.00656	.00671	.00687	.00703	.00719	.00736	.00753
10.4	.00608	.00622	.00636	.00651	.00666	.00682	.00698	.00714	.00731	.00748	.00765
10.6	.00617	.00632	.00646	.00662	.00677	.00693	.00709	.00725	.00742	.00759	.00777
10.8	.00627	.00642	.00657	.00672	.00688	.00704	.00720	.00737	.00754	.00771	.00789
11.0	.00637	.00652	.00667	.00682	.00698	.00715	.00731	.00748	.00766	.00784	.00802
11.2	.00647	.00662	.00677	.00693	.00709	.00726	.00743	.00760	.00778	.00796	.00814
11.4	.00657	.00672	.00688	.00704	.00720	.00737	.00754	.00772	.00790	.00808	.00827
11.6	.00667	.00683	.00699	.00715	.00732	.00749	.00766	.00784	.00802	.00821	.00840
11.8	.00678	.00693	.00710	.00726	.00743	.00760	.00778	.00796	.00815	.00834	.00853
12.0	.00688	.00704	.00721	.00737	.00755	.00772	.00790	.00809	.00827	.00847	.00866
12.2	.00699	.00715	.00732	.00749	.00766	.00784	.00802	.00821	.00840	.00860	.00880
12.4	.00710	.00726	.00743	.00761	.00778	.00796	.00815	.00834	.00853	.00873	.00894
12.6	.00721	.00738	.00755	.00772	.00790	.00809	.00828	.00847	.00867	.00887	.00907
12.8	.00732	.00749	.00766	.00784	.00803	.00821	.00840	.00860	.00880	.00901	.00922
13.0	.00743	.00761	.00778	.00796	.00815	.00834	.00853	.00873	.00894	.00914	.00936
13.2	.00755	.00772	.00790	.00809	.00828	.00847	.00867	.00887	.00907	.00929	.00950
13.4	.00766	.00784	.00803	.00821	.00840	.00860	.00880	.00900	.00921	.00943	.00965
13.6	.00778	.00796	.00815	.00834	.00853	.00873	.00894	.00914	.00936	.00957	.00980
13.8	.00790	.00809	.00827	.00847	.00866	.00887	.00907	.00928	.00950	.00972	.00995
14.0	.00802	.00821	.00840	.00860	.00880	.00900	.00921	.00943	.00965	.00987	.01010

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.50	5.51	5.52	5.53	5.54	5.55	5.56	5.57	5.58	5.59	5.60
14.0	.00802	.00821	.00840	.00860	.00880	.00900	.00921	.00943	.00965	.00987	.01010
14.2	.00815	.00834	.00853	.00873	.00893	.00914	.00935	.00957	.00979	.01002	.01026
14.4	.00827	.00846	.00866	.00886	.00907	.00928	.00950	.00972	.00994	.01018	.01041
14.6	.00840	.00859	.00879	.00900	.00921	.00942	.00964	.00987	.01010	.01033	.01057
14.8	.00853	.00873	.00893	.00914	.00935	.00957	.00979	.01002	.01025	.01049	.01073
15.0	.00866	.00886	.00906	.00928	.00949	.00971	.00994	.01017	.01041	.01065	.01090
15.2	.00879	.00899	.00920	.00942	.00964	.00986	.01009	.01033	.01057	.01081	.01106
15.4	.00892	.00913	.00934	.00956	.00978	.01001	.01024	.01048	.01073	.01098	.01123
15.6	.00906	.00927	.00948	.00971	.00993	.01016	.01040	.01064	.01089	.01114	.01140
15.8	.00920	.00941	.00963	.00985	.01008	.01032	.01056	.01080	.01105	.01131	.01158
16.0	.00933	.00955	.00977	.01000	.01024	.01047	.01072	.01097	.01122	.01148	.01175
16.2	.00948	.00970	.00992	.01015	.01039	.01063	.01088	.01113	.01139	.01166	.01193
16.4	.00962	.00984	.01007	.01031	.01055	.01079	.01104	.01130	.01156	.01183	.01211
16.6	.00976	.00999	.01022	.01046	.01071	.01096	.01121	.01147	.01174	.01201	.01229
16.8	.00991	.01014	.01038	.01062	.01087	.01112	.01138	.01164	.01192	.01219	.01248
17.0	.0101	.0103	.0105	.0108	.0110	.0113	.0116	.0118	.0121	.0124	.0127
17.2	.0102	.0104	.0107	.0109	.0112	.0115	.0117	.0120	.0123	.0126	.0129
17.4	.0104	.0106	.0109	.0111	.0114	.0116	.0119	.0122	.0125	.0128	.0130
17.6	.0105	.0108	.0110	.0113	.0115	.0118	.0121	.0124	.0126	.0129	.0132
17.8	.0107	.0109	.0112	.0114	.0117	.0120	.0123	.0125	.0128	.0131	.0134
18.0	.0108	.0111	.0113	.0116	.0119	.0122	.0124	.0127	.0130	.0133	.0136
18.2	.0110	.0113	.0115	.0118	.0121	.0123	.0126	.0129	.0132	.0135	.0138
18.4	.0112	.0114	.0117	.0120	.0122	.0125	.0128	.0131	.0134	.0137	.0141
18.6	.0113	.0116	.0119	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0143
18.8	.0115	.0118	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0145
19.0	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0144	.0147
19.2	.0118	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0146	.0149
19.4	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0144	.0148	.0151
19.6	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0143	.0147	.0150	.0153
19.8	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0145	.0149	.0152	.0156
20.0	.0126	.0128	.0131	.0135	.0138	.0141	.0144	.0148	.0151	.0154	.0158
20.2	.0127	.0130	.0133	.0137	.0140	.0143	.0146	.0150	.0153	.0157	.0160
20.4	.0129	.0132	.0135	.0139	.0142	.0145	.0148	.0152	.0155	.0159	.0163
20.6	.0131	.0134	.0137	.0141	.0144	.0147	.0151	.0154	.0158	.0161	.0165
20.8	.0133	.0136	.0139	.0143	.0146	.0149	.0153	.0156	.0160	.0164	.0168
21.0	.0135	.0138	.0141	.0145	.0148	.0152	.0155	.0159	.0162	.0166	.0170

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.50	5.51	5.52	5.53	5.54	5.55	5.56	5.57	5.58	5.59	5.60
21.0	.0135	.0138	.0141	.0145	.0148	.0152	.0155	.0159	.0162	.0166	.0170
21.2	.0137	.0140	.0143	.0147	.0150	.0154	.0157	.0161	.0165	.0169	.0172
21.4	.0139	.0142	.0146	.0149	.0152	.0156	.0160	.0163	.0167	.0171	.0175
21.6	.0141	.0144	.0148	.0151	.0155	.0158	.0162	.0166	.0170	.0174	.0178
21.8	.0143	.0146	.0150	.0153	.0157	.0161	.0164	.0168	.0172	.0176	.0180
22.0	.0145	.0149	.0152	.0156	.0159	.0163	.0167	.0171	.0175	.0179	.0183
22.2	.0147	.0151	.0154	.0158	.0161	.0165	.0169	.0173	.0177	.0181	.0185
22.4	.0149	.0153	.0156	.0160	.0164	.0168	.0172	.0176	.0180	.0184	.0188
22.6	.0152	.0155	.0159	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0191
22.8	.0154	.0157	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0189	.0194
23.0	.0156	.0160	.0163	.0167	.0171	.0175	.0179	.0183	.0188	.0192	.0196
23.2	.0158	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0190	.0195	.0199
23.4	.0161	.0164	.0168	.0172	.0176	.0180	.0184	.0189	.0193	.0197	.0202
23.6	.0163	.0167	.0170	.0174	.0179	.0183	.0187	.0191	.0196	.0200	.0205
23.8	.0165	.0169	.0173	.0177	.0181	.0185	.0190	.0194	.0199	.0203	.0208
24.0	.0168	.0171	.0175	.0180	.0184	.0188	.0192	.0197	.0201	.0206	.0211
24.2	.0170	.0174	.0178	.0182	.0186	.0191	.0195	.0200	.0204	.0209	.0214
24.4	.0172	.0176	.0180	.0185	.0189	.0193	.0198	.0203	.0207	.0212	.0217
24.6	.0175	.0179	.0183	.0187	.0192	.0196	.0201	.0205	.0210	.0215	.0220
24.8	.0177	.0181	.0186	.0190	.0194	.0199	.0204	.0208	.0213	.0218	.0223
25.0	.0180	.0184	.0188	.0193	.0197	.0202	.0206	.0211	.0216	.0221	.0226
25.2	.0182	.0187	.0191	.0195	.0200	.0205	.0209	.0214	.0219	.0224	.0230
25.4	.0185	.0189	.0194	.0198	.0203	.0208	.0212	.0217	.0222	.0228	.0233
25.6	.0188	.0192	.0196	.0201	.0206	.0211	.0215	.0220	.0226	.0231	.0236
25.8	.0190	.0195	.0199	.0204	.0209	.0213	.0218	.0224	.0229	.0234	.0240
26.0	.0193	.0197	.0202	.0207	.0212	.0217	.0222	.0227	.0232	.0237	.0243
26.2	.0196	.0200	.0205	.0210	.0215	.0220	.0225	.0230	.0235	.0241	.0246
26.4	.0198	.0203	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244	.0250
26.6	.0201	.0206	.0211	.0216	.0221	.0226	.0231	.0236	.0242	.0248	.0253
26.8	.0204	.0209	.0214	.0219	.0224	.0229	.0234	.0240	.0245	.0251	.0257
27.0	.0207	.0212	.0217	.0222	.0227	.0232	.0238	.0243	.0249	.0255	.0261
27.2	.0210	.0215	.0220	.0225	.0230	.0235	.0241	.0247	.0252	.0258	.0264
27.4	.0213	.0218	.0223	.0228	.0233	.0239	.0244	.0250	.0256	.0262	.0268
27.6	.0216	.0221	.0226	.0231	.0237	.0242	.0248	.0253	.0259	.0265	.0272
27.8	.0219	.0224	.0229	.0234	.0240	.0245	.0251	.0257	.0263	.0269	.0275
28.0	.0222	.0227	.0232	.0238	.0243	.0249	.0255	.0261	.0267	.0273	.0279

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.50	5.51	5.52	5.53	5.54	5.55	5.56	5.57	5.58	5.59	5.60
28.0	.0222	.0227	.0232	.0238	.0243	.0249	.0255	.0261	.0267	.0273	.0279
28.2	.0225	.0230	.0236	.0241	.0247	.0252	.0258	.0264	.0270	.0277	.0283
28.4	.0228	.0233	.0239	.0244	.0250	.0256	.0262	.0268	.0274	.0281	.0287
28.6	.0231	.0237	.0242	.0248	.0254	.0259	.0265	.0272	.0278	.0284	.0291
28.8	.0234	.0240	.0245	.0251	.0257	.0263	.0269	.0275	.0282	.0288	.0295
29.0	.0238	.0243	.0249	.0255	.0261	.0267	.0273	.0279	.0286	.0292	.0299
29.2	.0241	.0247	.0252	.0258	.0264	.0270	.0277	.0283	.0290	.0296	.0303
29.4	.0244	.0250	.0256	.0262	.0268	.0274	.0281	.0287	.0294	.0301	.0308
29.6	.0248	.0253	.0259	.0265	.0272	.0278	.0284	.0291	.0298	.0305	.0312
29.8	.0251	.0257	.0263	.0269	.0275	.0282	.0288	.0295	.0302	.0309	.0316
30.0	.0255	.0260	.0267	.0273	.0279	.0286	.0292	.0299	.0306	.0313	.0320
30.2	.0258	.0264	.0270	.0277	.0283	.0290	.0296	.0303	.0310	.0317	.0325
30.4	.0262	.0268	.0274	.0280	.0287	.0294	.0300	.0307	.0315	.0322	.0329
30.6	.0265	.0271	.0278	.0284	.0291	.0298	.0304	.0312	.0319	.0326	.0334
30.8	.0269	.0275	.0281	.0288	.0295	.0302	.0309	.0316	.0323	.0331	.0338
31.0	.0273	.0279	.0285	.0292	.0299	.0306	.0313	.0320	.0328	.0335	.0343
31.2	.0276	.0283	.0289	.0296	.0303	.0310	.0317	.0325	.0332	.0340	.0348
31.4	.0280	.0287	.0293	.0300	.0307	.0314	.0321	.0329	.0337	.0344	.0352
31.6	.0284	.0290	.0297	.0304	.0311	.0318	.0326	.0333	.0341	.0349	.0357
31.8	.0288	.0294	.0301	.0308	.0315	.0323	.0330	.0338	.0346	.0354	.0362
32.0	.0292	.0298	.0305	.0312	.0320	.0327	.0335	.0343	.0351	.0359	.0367
32.2	.0296	.0302	.0309	.0317	.0324	.0332	.0339	.0347	.0355	.0364	.0372
32.4	.0300	.0307	.0314	.0321	.0328	.0336	.0344	.0352	.0360	.0369	.0377
32.6	.0304	.0311	.0318	.0325	.0333	.0341	.0349	.0357	.0365	.0373	.0382
32.8	.0308	.0315	.0322	.0330	.0337	.0345	.0353	.0362	.0370	.0379	.0387
33.0	.0312	.0319	.0327	.0334	.0342	.0350	.0358	.0366	.0375	.0384	.0393
33.2	.0316	.0323	.0331	.0339	.0347	.0355	.0363	.0371	.0380	.0389	.0398
33.4	.0320	.0328	.0335	.0343	.0351	.0359	.0368	.0376	.0385	.0394	.0403
33.6	.0325	.0332	.0340	.0348	.0356	.0364	.0373	.0381	.0390	.0399	.0409
33.8	.0329	.0337	.0344	.0353	.0361	.0369	.0378	.0387	.0396	.0405	.0414
34.0	.0333	.0341	.0349	.0357	.0366	.0374	.0383	.0392	.0401	.0410	.0420
34.2	.0338	.0346	.0354	.0362	.0370	.0379	.0388	.0397	.0406	.0416	.0425
34.4	.0342	.0350	.0359	.0367	.0375	.0384	.0393	.0402	.0412	.0421	.0431
34.6	.0347	.0355	.0363	.0372	.0380	.0389	.0398	.0408	.0417	.0427	.0437
34.8	.0352	.0360	.0368	.0377	.0386	.0394	.0404	.0413	.0423	.0433	.0443
35.0	.0356	.0365	.0373	.0382	.0391	.0400	.0409	.0419	.0428	.0438	.0448

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.50	5.51	5.52	5.53	5.54	5.55	5.56	5.57	5.58	5.59	5.60
35.0	.0356	.0365	.0373	.0382	.0391	.0400	.0409	.0419	.0428	.0438	.0448
35.2	.0361	.0369	.0378	.0387	.0396	.0405	.0414	.0424	.0434	.0444	.0454
35.4	.0366	.0374	.0383	.0392	.0401	.0410	.0420	.0430	.0440	.0450	.0460
35.6	.0371	.0379	.0388	.0397	.0406	.0416	.0426	.0435	.0446	.0456	.0467
35.8	.0376	.0384	.0393	.0402	.0412	.0421	.0431	.0441	.0452	.0462	.0473
36.0	.0381	.0389	.0398	.0408	.0417	.0427	.0437	.0447	.0457	.0468	.0479
36.2	.0386	.0395	.0404	.0413	.0423	.0433	.0443	.0453	.0464	.0474	.0485
36.4	.0391	.0400	.0409	.0419	.0428	.0438	.0449	.0459	.0470	.0481	.0492
36.6	.0396	.0405	.0414	.0424	.0434	.0444	.0454	.0465	.0476	.0487	.0498
36.8	.0401	.0410	.0420	.0430	.0440	.0450	.0460	.0471	.0482	.0493	.0505
37.0	.0406	.0416	.0425	.0435	.0446	.0456	.0466	.0477	.0488	.0500	.0511
37.2	.0412	.0421	.0431	.0441	.0451	.0462	.0473	.0484	.0495	.0506	.0518
37.4	.0417	.0427	.0437	.0447	.0457	.0468	.0479	.0490	.0501	.0513	.0525
37.6	.0423	.0432	.0442	.0453	.0463	.0474	.0485	.0496	.0508	.0520	.0532
37.8	.0428	.0438	.0448	.0459	.0469	.0480	.0491	.0503	.0515	.0527	.0539
38.0	.0434	.0444	.0454	.0465	.0475	.0487	.0498	.0509	.0521	.0533	.0546
38.2	.0439	.0450	.0460	.0471	.0482	.0493	.0504	.0516	.0528	.0540	.0553
38.4	.0445	.0455	.0466	.0477	.0488	.0499	.0511	.0523	.0535	.0547	.0560
38.6	.0451	.0461	.0472	.0483	.0494	.0506	.0518	.0530	.0542	.0555	.0567
38.8	.0457	.0467	.0478	.0489	.0501	.0512	.0524	.0537	.0549	.0562	.0575
39.0	.0463	.0473	.0484	.0496	.0507	.0519	.0531	.0543	.0556	.0569	.0582
39.2	.0469	.0480	.0491	.0502	.0514	.0526	.0538	.0551	.0563	.0576	.0590
39.4	.0475	.0486	.0497	.0509	.0520	.0533	.0545	.0558	.0571	.0584	.0598
39.6	.0481	.0492	.0503	.0515	.0527	.0539	.0552	.0565	.0578	.0591	.0605
39.8	.0487	.0498	.0510	.0522	.0534	.0546	.0559	.0572	.0585	.0599	.0613
40.0	.0493	.0505	.0517	.0529	.0541	.0553	.0566	.0580	.0593	.0607	.0621

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.60	5.61	5.62	5.63	5.64	5.65	5.66	5.67	5.68	5.69	5.70
.0	.00329	.00337	.00345	.00353	.00361	.00369	.00378	.00387	.00396	.00405	.00414
.2	.00335	.00343	.00351	.00359	.00367	.00376	.00384	.00393	.00402	.00412	.00421
.4	.00340	.00348	.00356	.00365	.00373	.00382	.00391	.00400	.00409	.00419	.00429
.6	.00346	.00354	.00362	.00371	.00380	.00388	.00397	.00407	.00416	.00426	.00436
.8	.00352	.00360	.00369	.00377	.00386	.00395	.00404	.00414	.00423	.00433	.00443
1.0	.00358	.00366	.00375	.00384	.00393	.00402	.00411	.00421	.00430	.00440	.00451
1.2	.00364	.00372	.00381	.00390	.00399	.00408	.00418	.00428	.00438	.00448	.00458
1.4	.00370	.00379	.00388	.00397	.00406	.00415	.00425	.00435	.00445	.00455	.00466
1.6	.00376	.00385	.00394	.00403	.00413	.00422	.00432	.00442	.00452	.00463	.00474
1.8	.00383	.00392	.00401	.00410	.00420	.00429	.00439	.00450	.00460	.00471	.00482
2.0	.00389	.00398	.00407	.00417	.00427	.00437	.00447	.00457	.00468	.00479	.00490
2.2	.00396	.00405	.00414	.00424	.00434	.00444	.00454	.00465	.00476	.00487	.00498
2.4	.00402	.00412	.00421	.00431	.00441	.00451	.00462	.00473	.00484	.00495	.00506
2.6	.00409	.00418	.00428	.00438	.00448	.00459	.00469	.00480	.00492	.00503	.00515
2.8	.00416	.00425	.00435	.00445	.00456	.00466	.00477	.00488	.00500	.00511	.00523
3.0	.00423	.00432	.00443	.00453	.00463	.00474	.00485	.00496	.00508	.00520	.00532
3.2	.00430	.00440	.00450	.00460	.00471	.00482	.00493	.00505	.00516	.00529	.00541
3.4	.00437	.00447	.00457	.00468	.00479	.00490	.00501	.00513	.00525	.00537	.00550
3.6	.00444	.00454	.00465	.00476	.00487	.00498	.00510	.00522	.00534	.00546	.00559
3.8	.00451	.00462	.00473	.00484	.00495	.00506	.00518	.00530	.00543	.00555	.00568
4.0	.00459	.00469	.00480	.00492	.00503	.00515	.00527	.00539	.00552	.00564	.00578
4.2	.00466	.00477	.00488	.00500	.00511	.00523	.00535	.00548	.00561	.00574	.00587
4.4	.00474	.00485	.00496	.00508	.00520	.00532	.00544	.00557	.00570	.00583	.00597
4.6	.00482	.00493	.00504	.00516	.00528	.00541	.00553	.00566	.00579	.00593	.00606
4.8	.00490	.00501	.00513	.00525	.00537	.00549	.00562	.00575	.00589	.00602	.00616
5.0	.00498	.00509	.00521	.00533	.00546	.00558	.00571	.00585	.00598	.00612	.00627
5.2	.00506	.00518	.00530	.00542	.00555	.00568	.00581	.00594	.00608	.00622	.00637
5.4	.00514	.00526	.00538	.00551	.00564	.00577	.00590	.00604	.00618	.00632	.00647
5.6	.00522	.00535	.00547	.00560	.00573	.00586	.00600	.00614	.00628	.00643	.00658
5.8	.00531	.00543	.00556	.00569	.00582	.00596	.00610	.00624	.00638	.00653	.00668
6.0	.00540	.00552	.00565	.00578	.00592	.00605	.00620	.00634	.00649	.00664	.00679
6.2	.00548	.00561	.00574	.00588	.00601	.00615	.00630	.00644	.00659	.00675	.00690
6.4	.00557	.00570	.00584	.00597	.00611	.00625	.00640	.00655	.00670	.00686	.00702
6.6	.00566	.00579	.00593	.00607	.00621	.00635	.00650	.00665	.00681	.00697	.00713
6.8	.00575	.00589	.00603	.00617	.00631	.00646	.00661	.00676	.00692	.00708	.00724
7.0	.00585	.00598	.00612	.00627	.00641	.00656	.00671	.00687	.00703	.00719	.00736

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.60	5.61	5.62	5.63	5.64	5.65	5.66	5.67	5.68	5.69	5.70
7.0	.00585	.00598	.00612	.00627	.00641	.00656	.00671	.00687	.00703	.00719	.00736
7.2	.00594	.00608	.00622	.00637	.00652	.00667	.00682	.00698	.00714	.00731	.00748
7.4	.00604	.00618	.00632	.00647	.00662	.00677	.00693	.00709	.00726	.00743	.00760
7.6	.00613	.00628	.00642	.00657	.00673	.00688	.00704	.00721	.00738	.00755	.00772
7.8	.00623	.00638	.00653	.00668	.00683	.00699	.00716	.00732	.00749	.00767	.00785
8.0	.00633	.00648	.00663	.00679	.00694	.00711	.00727	.00744	.00761	.00779	.00797
8.2	.00643	.00658	.00674	.00689	.00706	.00722	.00739	.00756	.00774	.00792	.00810
8.4	.00654	.00669	.00685	.00700	.00717	.00733	.00751	.00768	.00786	.00804	.00823
8.6	.00664	.00680	.00695	.00712	.00728	.00745	.00763	.00780	.00798	.00817	.00836
8.8	.00675	.00690	.00707	.00723	.00740	.00757	.00775	.00793	.00811	.00830	.00849
9.0	.00685	.00701	.00718	.00735	.00752	.00769	.00787	.00805	.00824	.00843	.00863
9.2	.00696	.00713	.00729	.00746	.00764	.00781	.00800	.00818	.00837	.00857	.00877
9.4	.00707	.00724	.00741	.00758	.00776	.00794	.00812	.00831	.00851	.00870	.00891
9.6	.00719	.00735	.00753	.00770	.00788	.00806	.00825	.00844	.00864	.00884	.00905
9.8	.00730	.00747	.00764	.00782	.00800	.00819	.00838	.00858	.00878	.00898	.00919
10.0	.00742	.00759	.00777	.00795	.00813	.00832	.00851	.00871	.00892	.00912	.00934
10.2	.00753	.00771	.00789	.00807	.00826	.00845	.00865	.00885	.00906	.00927	.00948
10.4	.00765	.00783	.00801	.00820	.00839	.00858	.00878	.00899	.00920	.00941	.00963
10.6	.00777	.00795	.00814	.00833	.00852	.00872	.00892	.00913	.00934	.00956	.00978
10.8	.00789	.00808	.00827	.00846	.00866	.00886	.00906	.00927	.00949	.00971	.00994
11.0	.00802	.00820	.00840	.00859	.00879	.00900	.00921	.00942	.00964	.00986	.01009
11.2	.00814	.00833	.00853	.00873	.00893	.00914	.00935	.00957	.00979	.01002	.01025
11.4	.00827	.00846	.00866	.00886	.00907	.00928	.00950	.00972	.00994	.01018	.01041
11.6	.00840	.00860	.00880	.00900	.00921	.00943	.00964	.00987	.01010	.01033	.01058
11.8	.00853	.00873	.00893	.00914	.00935	.00957	.00980	.01002	.01026	.01050	.01074
12.0	.00866	.00887	.00907	.00928	.00950	.00972	.00995	.01018	.01042	.01066	.01091
12.2	.00880	.00900	.00921	.00943	.00965	.00987	.01010	.01034	.01058	.01082	.01108
12.4	.00894	.00914	.00936	.00957	.00980	.01003	.01026	.01050	.01074	.01099	.01125
12.6	.00907	.00929	.00950	.00972	.00995	.01018	.01042	.01066	.01091	.01116	.01142
12.8	.00922	.00943	.00965	.00987	.01010	.01034	.01058	.01083	.01108	.01134	.01160
13.0	.00936	.00958	.00980	.01003	.01026	.01050	.01074	.01099	.01125	.01151	.01178
13.2	.00950	.00972	.00995	.01018	.01042	.01066	.01091	.01116	.01142	.01169	.01196
13.4	.00965	.00987	.01010	.01034	.01058	.01083	.01108	.01134	.01160	.01187	.01215
13.6	.00980	.01003	.01026	.01050	.01074	.01099	.01125	.01151	.01178	.01205	.01233
13.8	.00995	.01018	.01042	.01066	.01091	.01116	.01142	.01169	.01196	.01224	.01252
14.0	.0101	.0103	.0106	.0108	.0111	.0113	.0116	.0119	.0121	.0124	.0127

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.60	5.61	5.62	5.63	5.64	5.65	5.66	5.67	5.68	5.69	5.70
14.0	.0101	.0103	.0106	.0108	.0111	.0113	.0116	.0119	.0121	.0124	.0127
14.2	.0103	.0105	.0107	.0110	.0112	.0115	.0118	.0120	.0123	.0126	.0129
14.4	.0104	.0107	.0109	.0112	.0114	.0117	.0120	.0122	.0125	.0128	.0131
14.6	.0106	.0108	.0111	.0113	.0116	.0119	.0121	.0124	.0127	.0130	.0133
14.8	.0107	.0110	.0112	.0115	.0118	.0120	.0123	.0126	.0129	.0132	.0135
15.0	.0109	.0112	.0114	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137
15.2	.0111	.0113	.0116	.0119	.0121	.0124	.0127	.0130	.0133	.0136	.0139
15.4	.0112	.0115	.0118	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141
15.6	.0114	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0144
15.8	.0116	.0118	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0146
16.0	.0118	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0145	.0148
16.2	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0143	.0147	.0150
16.4	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0146	.0149	.0152
16.6	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0144	.0148	.0151	.0155
16.8	.0125	.0128	.0131	.0134	.0137	.0140	.0143	.0147	.0150	.0153	.0157
17.0	.0127	.0130	.0133	.0136	.0139	.0142	.0145	.0149	.0152	.0156	.0159
17.2	.0129	.0132	.0135	.0138	.0141	.0144	.0148	.0151	.0155	.0158	.0162
17.4	.0130	.0134	.0137	.0140	.0143	.0146	.0150	.0153	.0157	.0161	.0164
17.6	.0132	.0136	.0139	.0142	.0145	.0149	.0152	.0156	.0159	.0163	.0167
17.8	.0134	.0138	.0141	.0144	.0147	.0151	.0154	.0158	.0162	.0165	.0169
18.0	.0136	.0140	.0143	.0146	.0150	.0153	.0157	.0160	.0164	.0168	.0172
18.2	.0138	.0142	.0145	.0148	.0152	.0155	.0159	.0163	.0166	.0170	.0174
18.4	.0141	.0144	.0147	.0151	.0154	.0158	.0161	.0165	.0169	.0173	.0177
18.6	.0143	.0146	.0149	.0153	.0156	.0160	.0164	.0168	.0171	.0175	.0180
18.8	.0145	.0148	.0152	.0155	.0159	.0162	.0166	.0170	.0174	.0178	.0182
19.0	.0147	.0150	.0154	.0157	.0161	.0165	.0169	.0173	.0177	.0181	.0185
19.2	.0149	.0153	.0156	.0160	.0163	.0167	.0171	.0175	.0179	.0183	.0188
19.4	.0151	.0155	.0158	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0190
19.6	.0153	.0157	.0161	.0164	.0168	.0172	.0176	.0180	.0185	.0189	.0193
19.8	.0156	.0159	.0163	.0167	.0171	.0175	.0179	.0183	.0187	.0192	.0196
20.0	.0158	.0162	.0166	.0169	.0173	.0177	.0181	.0186	.0190	.0194	.0199
20.2	.0160	.0164	.0168	.0172	.0176	.0180	.0184	.0188	.0193	.0197	.0202
20.4	.0163	.0167	.0170	.0174	.0178	.0183	.0187	.0191	.0196	.0200	.0205
20.6	.0165	.0169	.0173	.0177	.0181	.0185	.0190	.0194	.0199	.0203	.0208
20.8	.0168	.0171	.0175	.0180	.0184	.0188	.0192	.0197	.0201	.0206	.0211
21.0	.0170	.0174	.0178	.0182	.0186	.0191	.0195	.0200	.0204	.0209	.0214

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.60	5.61	5.62	5.63	5.64	5.65	5.66	5.67	5.68	5.69	5.70
21.0	.0170	.0174	.0178	.0182	.0186	.0191	.0195	.0200	.0204	.0209	.0214
21.2	.0172	.0177	.0181	.0185	.0189	.0194	.0198	.0203	.0207	.0212	.0217
21.4	.0175	.0179	.0183	.0188	.0192	.0196	.0201	.0206	.0210	.0215	.0220
21.6	.0178	.0182	.0186	.0190	.0195	.0199	.0204	.0209	.0213	.0218	.0224
21.8	.0180	.0184	.0189	.0193	.0198	.0202	.0207	.0212	.0217	.0222	.0227
22.0	.0183	.0187	.0191	.0196	.0200	.0205	.0210	.0215	.0220	.0225	.0230
22.2	.0185	.0190	.0194	.0199	.0203	.0208	.0213	.0218	.0223	.0228	.0233
22.4	.0188	.0192	.0197	.0202	.0206	.0211	.0216	.0221	.0226	.0231	.0237
22.6	.0191	.0195	.0200	.0204	.0209	.0214	.0219	.0224	.0229	.0235	.0240
22.8	.0194	.0198	.0203	.0207	.0212	.0217	.0222	.0227	.0233	.0238	.0244
23.0	.0196	.0201	.0206	.0210	.0215	.0220	.0225	.0231	.0236	.0242	.0247
23.2	.0199	.0204	.0209	.0213	.0218	.0224	.0229	.0234	.0239	.0245	.0251
23.4	.0202	.0207	.0212	.0217	.0222	.0227	.0232	.0237	.0243	.0249	.0254
23.6	.0205	.0210	.0215	.0220	.0225	.0230	.0235	.0241	.0246	.0252	.0258
23.8	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244	.0250	.0256	.0262
24.0	.0211	.0216	.0221	.0226	.0231	.0237	.0242	.0248	.0254	.0259	.0265
24.2	.0214	.0219	.0224	.0229	.0235	.0240	.0246	.0251	.0257	.0263	.0269
24.4	.0217	.0222	.0227	.0232	.0238	.0243	.0249	.0255	.0261	.0267	.0273
24.6	.0220	.0225	.0230	.0236	.0241	.0247	.0253	.0259	.0265	.0271	.0277
24.8	.0223	.0228	.0234	.0239	.0245	.0250	.0256	.0262	.0268	.0275	.0281
25.0	.0226	.0232	.0237	.0243	.0248	.0254	.0260	.0266	.0272	.0279	.0285
25.2	.0230	.0235	.0240	.0246	.0252	.0258	.0264	.0270	.0276	.0282	.0289
25.4	.0233	.0238	.0244	.0250	.0255	.0261	.0267	.0274	.0280	.0286	.0293
25.6	.0236	.0242	.0247	.0253	.0259	.0265	.0271	.0277	.0284	.0291	.0297
25.8	.0240	.0245	.0251	.0257	.0263	.0269	.0275	.0281	.0288	.0295	.0302
26.0	.0243	.0249	.0254	.0260	.0266	.0273	.0279	.0285	.0292	.0299	.0306
26.2	.0246	.0252	.0258	.0264	.0270	.0276	.0283	.0289	.0296	.0303	.0310
26.4	.0250	.0256	.0262	.0268	.0274	.0280	.0287	.0294	.0300	.0307	.0314
26.6	.0253	.0259	.0265	.0271	.0278	.0284	.0291	.0298	.0305	.0312	.0319
26.8	.0257	.0263	.0269	.0275	.0282	.0288	.0295	.0302	.0309	.0316	.0323
27.0	.0261	.0267	.0273	.0279	.0286	.0292	.0299	.0306	.0313	.0320	.0328
27.2	.0264	.0270	.0277	.0283	.0290	.0296	.0303	.0310	.0318	.0325	.0333
27.4	.0268	.0274	.0280	.0287	.0294	.0301	.0308	.0315	.0322	.0330	.0337
27.6	.0272	.0278	.0284	.0291	.0298	.0305	.0312	.0319	.0327	.0334	.0342
27.8	.0275	.0282	.0288	.0295	.0302	.0309	.0316	.0324	.0331	.0339	.0347
28.0	.0279	.0286	.0292	.0299	.0306	.0313	.0321	.0328	.0336	.0344	.0352

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.60	5.61	5.62	5.63	5.64	5.65	5.66	5.67	5.68	5.69	5.70
28.0	.0279	.0286	.0292	.0299	.0306	.0313	.0321	.0328	.0336	.0344	.0352
28.2	.0283	.0290	.0296	.0303	.0310	.0318	.0325	.0333	.0340	.0348	.0356
28.4	.0287	.0294	.0301	.0308	.0315	.0322	.0330	.0337	.0345	.0353	.0361
28.6	.0291	.0298	.0305	.0312	.0319	.0327	.0334	.0342	.0350	.0358	.0366
28.8	.0295	.0302	.0309	.0316	.0324	.0331	.0339	.0347	.0355	.0363	.0372
29.0	.0299	.0306	.0313	.0321	.0328	.0336	.0344	.0352	.0360	.0368	.0377
29.2	.0303	.0310	.0318	.0325	.0333	.0340	.0348	.0356	.0365	.0373	.0382
29.4	.0308	.0315	.0322	.0330	.0337	.0345	.0353	.0361	.0370	.0378	.0387
29.6	.0312	.0319	.0326	.0334	.0342	.0350	.0358	.0366	.0375	.0384	.0393
29.8	.0316	.0323	.0331	.0339	.0347	.0355	.0363	.0371	.0380	.0389	.0398
30.0	.0320	.0328	.0336	.0343	.0351	.0360	.0368	.0376	.0385	.0394	.0403
30.2	.0325	.0332	.0340	.0348	.0356	.0364	.0373	.0382	.0391	.0400	.0409
30.4	.0329	.0337	.0345	.0353	.0361	.0369	.0378	.0387	.0396	.0405	.0415
30.6	.0334	.0342	.0350	.0358	.0366	.0375	.0383	.0392	.0401	.0411	.0420
30.8	.0338	.0346	.0354	.0363	.0371	.0380	.0389	.0398	.0407	.0416	.0426
31.0	.0343	.0351	.0359	.0368	.0376	.0385	.0394	.0403	.0412	.0422	.0432
31.2	.0348	.0356	.0364	.0373	.0381	.0390	.0399	.0409	.0418	.0428	.0438
31.4	.0352	.0361	.0369	.0378	.0386	.0395	.0405	.0414	.0424	.0434	.0444
31.6	.0357	.0366	.0374	.0383	.0392	.0401	.0410	.0420	.0430	.0440	.0450
31.8	.0362	.0371	.0379	.0388	.0397	.0406	.0416	.0425	.0435	.0445	.0456
32.0	.0367	.0376	.0384	.0393	.0402	.0412	.0421	.0431	.0441	.0452	.0462
32.2	.0372	.0381	.0390	.0399	.0408	.0417	.0427	.0437	.0447	.0458	.0468
32.4	.0377	.0386	.0395	.0404	.0413	.0423	.0433	.0443	.0453	.0464	.0475
32.6	.0382	.0391	.0400	.0410	.0419	.0429	.0439	.0449	.0459	.0470	.0481
32.8	.0387	.0396	.0406	.0415	.0425	.0435	.0445	.0455	.0466	.0477	.0488
33.0	.0393	.0402	.0411	.0421	.0430	.0440	.0451	.0461	.0472	.0483	.0494
33.2	.0398	.0407	.0417	.0426	.0436	.0446	.0457	.0467	.0478	.0489	.0501
33.4	.0403	.0413	.0422	.0432	.0442	.0452	.0463	.0474	.0485	.0496	.0508
33.6	.0409	.0418	.0428	.0438	.0448	.0458	.0469	.0480	.0491	.0503	.0514
33.8	.0414	.0424	.0434	.0444	.0454	.0465	.0475	.0487	.0498	.0509	.0521
34.0	.0420	.0429	.0439	.0450	.0460	.0471	.0482	.0493	.0505	.0516	.0528
34.2	.0425	.0435	.0445	.0456	.0466	.0477	.0488	.0500	.0511	.0523	.0535
34.4	.0431	.0441	.0451	.0462	.0473	.0484	.0495	.0506	.0518	.0530	.0543
34.6	.0437	.0447	.0457	.0468	.0479	.0490	.0501	.0513	.0525	.0537	.0550
34.8	.0443	.0453	.0463	.0474	.0485	.0497	.0508	.0520	.0532	.0544	.0557
35.0	.0448	.0459	.0470	.0481	.0492	.0503	.0515	.0527	.0539	.0552	.0565

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.60	5.61	5.62	5.63	5.64	5.65	5.66	5.67	5.68	5.69	5.70
35.0	.0448	.0459	.0470	.0481	.0492	.0503	.0515	.0527	.0539	.0552	.0565
35.2	.0454	.0465	.0476	.0487	.0498	.0510	.0522	.0534	.0546	.0559	.0572
35.4	.0460	.0471	.0482	.0493	.0505	.0517	.0529	.0541	.0554	.0566	.0580
35.6	.0467	.0477	.0489	.0500	.0512	.0524	.0536	.0548	.0561	.0574	.0587
35.8	.0473	.0484	.0495	.0507	.0518	.0530	.0543	.0555	.0568	.0582	.0595
36.0	.0479	.0490	.0502	.0513	.0525	.0537	.0550	.0563	.0576	.0589	.0603
36.2	.0485	.0497	.0508	.0520	.0532	.0545	.0557	.0570	.0583	.0597	.0611
36.4	.0492	.0503	.0515	.0527	.0539	.0552	.0565	.0578	.0591	.0605	.0619
36.6	.0498	.0510	.0522	.0534	.0546	.0559	.0572	.0585	.0599	.0613	.0627
36.8	.0505	.0517	.0529	.0541	.0554	.0566	.0580	.0593	.0607	.0621	.0635
37.0	.0511	.0523	.0536	.0548	.0561	.0574	.0587	.0601	.0615	.0629	.0644
37.2	.0518	.0530	.0543	.0555	.0568	.0581	.0595	.0609	.0623	.0637	.0652
37.4	.0525	.0537	.0550	.0563	.0576	.0589	.0603	.0617	.0631	.0646	.0661
37.6	.0532	.0544	.0557	.0570	.0583	.0597	.0611	.0625	.0639	.0654	.0669
37.8	.0539	.0551	.0564	.0577	.0591	.0605	.0619	.0633	.0648	.0663	.0678
38.0	.0546	.0559	.0572	.0585	.0598	.0612	.0627	.0641	.0656	.0671	.0687
38.2	.0553	.0566	.0579	.0593	.0606	.0620	.0635	.0650	.0665	.0680	.0696
38.4	.0560	.0573	.0587	.0600	.0614	.0628	.0643	.0658	.0673	.0689	.0705
38.6	.0567	.0581	.0594	.0608	.0622	.0637	.0651	.0667	.0682	.0698	.0714
38.8	.0575	.0588	.0602	.0616	.0630	.0645	.0660	.0675	.0691	.0707	.0724
39.0	.0582	.0596	.0610	.0624	.0638	.0653	.0669	.0684	.0700	.0716	.0733
39.2	.0590	.0604	.0618	.0632	.0647	.0662	.0677	.0693	.0709	.0726	.0742
39.4	.0598	.0611	.0626	.0640	.0655	.0670	.0686	.0702	.0718	.0735	.0752
39.6	.0605	.0619	.0634	.0648	.0664	.0679	.0695	.0711	.0728	.0744	.0762
39.8	.0613	.0627	.0642	.0657	.0672	.0688	.0704	.0720	.0737	.0754	.0772
40.0	.0621	.0635	.0650	.0665	.0681	.0697	.0713	.0729	.0746	.0764	.0782

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.70	5.71	5.72	5.73	5.74	5.75	5.76	5.77	5.78	5.79	5.80
.0	.00414	.00424	.00434	.00444	.00454	.00465	.00476	.00487	.00498	.00510	.00522
.2	.00421	.00431	.00441	.00452	.00462	.00473	.00484	.00495	.00507	.00518	.00531
.4	.00429	.00439	.00449	.00459	.00470	.00481	.00492	.00504	.00515	.00527	.00540
.6	.00436	.00446	.00456	.00467	.00478	.00489	.00500	.00512	.00524	.00536	.00549
.8	.00443	.00453	.00464	.00475	.00486	.00497	.00509	.00521	.00533	.00545	.00558
1.0	.00451	.00461	.00472	.00483	.00494	.00506	.00517	.00529	.00542	.00554	.00567
1.2	.00458	.00469	.00480	.00491	.00502	.00514	.00526	.00538	.00551	.00564	.00577
1.4	.00466	.00477	.00488	.00499	.00511	.00523	.00535	.00547	.00560	.00573	.00587
1.6	.00474	.00485	.00496	.00508	.00519	.00532	.00544	.00557	.00570	.00583	.00596
1.8	.00482	.00493	.00504	.00516	.00528	.00540	.00553	.00566	.00579	.00593	.00606
2.0	.00490	.00501	.00513	.00525	.00537	.00550	.00562	.00575	.00589	.00603	.00617
2.2	.00498	.00510	.00521	.00534	.00546	.00559	.00572	.00585	.00599	.00613	.00627
2.4	.00506	.00518	.00530	.00543	.00555	.00568	.00581	.00595	.00609	.00623	.00637
2.6	.00515	.00527	.00539	.00552	.00564	.00578	.00591	.00605	.00619	.00633	.00648
2.8	.00523	.00535	.00548	.00561	.00574	.00587	.00601	.00615	.00629	.00644	.00659
3.0	.00532	.00544	.00557	.00570	.00583	.00597	.00611	.00625	.00640	.00654	.00670
3.2	.00541	.00553	.00566	.00580	.00593	.00607	.00621	.00635	.00650	.00665	.00681
3.4	.00550	.00563	.00576	.00589	.00603	.00617	.00631	.00646	.00661	.00676	.00692
3.6	.00559	.00572	.00585	.00599	.00613	.00627	.00642	.00657	.00672	.00688	.00704
3.8	.00568	.00581	.00595	.00609	.00623	.00637	.00652	.00667	.00683	.00699	.00715
4.0	.00578	.00591	.00605	.00619	.00633	.00648	.00663	.00679	.00694	.00710	.00727
4.2	.00587	.00601	.00615	.00629	.00644	.00659	.00674	.00690	.00706	.00722	.00739
4.4	.00597	.00611	.00625	.00639	.00654	.00669	.00685	.00701	.00717	.00734	.00751
4.6	.00606	.00621	.00635	.00650	.00665	.00680	.00696	.00713	.00729	.00746	.00764
4.8	.00616	.00631	.00645	.00661	.00676	.00692	.00708	.00724	.00741	.00758	.00776
5.0	.00627	.00641	.00656	.00671	.00687	.00703	.00719	.00736	.00753	.00771	.00789
5.2	.00637	.00652	.00667	.00682	.00698	.00714	.00731	.00748	.00766	.00783	.00802
5.4	.00647	.00662	.00678	.00693	.00710	.00726	.00743	.00760	.00778	.00796	.00815
5.6	.00658	.00673	.00689	.00705	.00721	.00738	.00755	.00773	.00791	.00809	.00828
5.8	.00668	.00684	.00700	.00716	.00733	.00750	.00767	.00785	.00804	.00822	.00842
6.0	.00679	.00695	.00711	.00728	.00745	.00762	.00780	.00798	.00817	.00836	.00855
6.2	.00690	.00706	.00723	.00740	.00757	.00775	.00793	.00811	.00830	.00849	.00869
6.4	.00702	.00718	.00735	.00752	.00769	.00787	.00805	.00824	.00843	.00863	.00883
6.6	.00713	.00730	.00747	.00764	.00782	.00800	.00819	.00838	.00857	.00877	.00898
6.8	.00724	.00741	.00759	.00776	.00794	.00813	.00832	.00851	.00871	.00891	.00912
7.0	.00736	.00753	.00771	.00789	.00807	.00826	.00845	.00865	.00885	.00906	.00927

TEMP DEG C	PH 5.70	5.71	5.72	5.73	5.74	5.75	5.76	5.77	5.78	5.79	5.80
7.0	.00736	.00753	.00771	.00789	.00807	.00826	.00845	.00865	.00885	.00906	.00927
7.2	.00748	.00765	.00783	.00802	.00820	.00839	.00859	.00879	.00899	.00920	.00942
7.4	.00760	.00778	.00796	.00814	.00833	.00853	.00873	.00893	.00914	.00935	.00957
7.6	.00772	.00790	.00809	.00828	.00847	.00867	.00887	.00907	.00928	.00950	.00972
7.8	.00785	.00803	.00822	.00841	.00860	.00880	.00901	.00922	.00943	.00965	.00988
8.0	.00797	.00816	.00835	.00854	.00874	.00895	.00915	.00937	.00959	.00981	.01004
8.2	.00810	.00829	.00848	.00868	.00888	.00909	.00930	.00952	.00974	.00997	.01020
8.4	.00823	.00842	.00862	.00882	.00902	.00923	.00945	.00967	.00989	.01012	.01036
8.6	.00836	.00856	.00876	.00896	.00917	.00938	.00960	.00982	.01005	.01029	.01053
8.8	.00849	.00869	.00889	.00910	.00931	.00953	.00975	.00998	.01021	.01045	.01069
9.0	.00863	.00883	.00904	.00925	.00946	.00968	.00991	.01014	.01038	.01062	.01086
9.2	.00877	.00897	.00918	.00939	.00961	.00984	.01007	.01030	.01054	.01079	.01104
9.4	.00891	.00911	.00933	.00954	.00977	.00999	.01023	.01046	.01071	.01096	.01121
9.6	.00905	.00926	.00947	.00969	.00992	.01015	.01039	.01063	.01088	.01113	.01139
9.8	.00919	.00940	.00962	.00985	.01008	.01031	.01055	.01080	.01105	.01131	.01157
10.0	.00934	.00955	.00978	.01000	.01024	.01047	.01072	.01097	.01122	.01149	.01175
10.2	.00948	.00970	.00993	.01016	.01040	.01064	.01089	.01114	.01140	.01167	.01194
10.4	.00963	.00986	.01009	.01032	.01056	.01081	.01106	.01132	.01158	.01185	.01213
10.6	.00978	.01001	.01025	.01048	.01073	.01098	.01123	.01150	.01176	.01204	.01232
10.8	.00994	.01017	.01041	.01065	.01090	.01115	.01141	.01168	.01195	.01223	.01251
11.0	.0101	.0103	.0106	.0108	.0111	.0113	.0116	.0119	.0121	.0124	.0127
11.2	.0103	.0105	.0107	.0110	.0112	.0115	.0118	.0120	.0123	.0126	.0129
11.4	.0104	.0107	.0109	.0112	.0114	.0117	.0120	.0122	.0125	.0128	.0131
11.6	.0106	.0108	.0111	.0113	.0116	.0119	.0121	.0124	.0127	.0130	.0133
11.8	.0107	.0110	.0112	.0115	.0118	.0121	.0123	.0126	.0129	.0132	.0135
12.0	.0109	.0112	.0114	.0117	.0120	.0122	.0125	.0128	.0131	.0134	.0137
12.2	.0111	.0113	.0116	.0119	.0121	.0124	.0127	.0130	.0133	.0136	.0139
12.4	.0112	.0115	.0118	.0121	.0123	.0126	.0129	.0132	.0135	.0138	.0142
12.6	.0114	.0117	.0120	.0122	.0125	.0128	.0131	.0134	.0137	.0141	.0144
12.8	.0116	.0119	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0143	.0146
13.0	.0118	.0121	.0123	.0126	.0129	.0132	.0135	.0138	.0142	.0145	.0148
13.2	.0120	.0122	.0125	.0128	.0131	.0134	.0137	.0141	.0144	.0147	.0151
13.4	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0143	.0146	.0149	.0153
13.6	.0123	.0126	.0129	.0132	.0135	.0138	.0142	.0145	.0148	.0152	.0155
13.8	.0125	.0128	.0131	.0134	.0137	.0141	.0144	.0147	.0151	.0154	.0158
14.0	.0127	.0130	.0133	.0136	.0139	.0143	.0146	.0149	.0153	.0156	.0160

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.70	5.71	5.72	5.73	5.74	5.75	5.76	5.77	5.78	5.79	5.80
14.0	.0127	.0130	.0133	.0136	.0139	.0143	.0146	.0149	.0153	.0156	.0160
14.2	.0129	.0132	.0135	.0138	.0142	.0145	.0148	.0152	.0155	.0159	.0163
14.4	.0131	.0134	.0137	.0140	.0144	.0147	.0151	.0154	.0158	.0161	.0165
14.6	.0133	.0136	.0139	.0143	.0146	.0149	.0153	.0156	.0160	.0164	.0168
14.8	.0135	.0138	.0141	.0145	.0148	.0152	.0155	.0159	.0162	.0166	.0170
15.0	.0137	.0140	.0144	.0147	.0150	.0154	.0158	.0161	.0165	.0169	.0173
15.2	.0139	.0143	.0146	.0149	.0153	.0156	.0160	.0164	.0167	.0171	.0175
15.4	.0141	.0145	.0148	.0152	.0155	.0159	.0162	.0166	.0170	.0174	.0178
15.6	.0144	.0147	.0150	.0154	.0157	.0161	.0165	.0169	.0173	.0177	.0181
15.8	.0146	.0149	.0153	.0156	.0160	.0164	.0167	.0171	.0175	.0179	.0183
16.0	.0148	.0151	.0155	.0159	.0162	.0166	.0170	.0174	.0178	.0182	.0186
16.2	.0150	.0154	.0157	.0161	.0165	.0168	.0172	.0176	.0181	.0185	.0189
16.4	.0152	.0156	.0160	.0163	.0167	.0171	.0175	.0179	.0183	.0188	.0192
16.6	.0155	.0158	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0190	.0195
16.8	.0157	.0161	.0164	.0168	.0172	.0176	.0180	.0185	.0189	.0193	.0198
17.0	.0159	.0163	.0167	.0171	.0175	.0179	.0183	.0187	.0192	.0196	.0201
17.2	.0162	.0166	.0169	.0173	.0177	.0182	.0186	.0190	.0195	.0199	.0204
17.4	.0164	.0168	.0172	.0176	.0180	.0184	.0189	.0193	.0197	.0202	.0207
17.6	.0167	.0171	.0175	.0179	.0183	.0187	.0191	.0196	.0200	.0205	.0210
17.8	.0169	.0173	.0177	.0181	.0186	.0190	.0194	.0199	.0203	.0208	.0213
18.0	.0172	.0176	.0180	.0184	.0188	.0193	.0197	.0202	.0206	.0211	.0216
18.2	.0174	.0178	.0183	.0187	.0191	.0196	.0200	.0205	.0210	.0214	.0219
18.4	.0177	.0181	.0185	.0190	.0194	.0198	.0203	.0208	.0213	.0218	.0223
18.6	.0180	.0184	.0188	.0192	.0197	.0201	.0206	.0211	.0216	.0221	.0226
18.8	.0182	.0186	.0191	.0195	.0200	.0204	.0209	.0214	.0219	.0224	.0229
19.0	.0185	.0189	.0194	.0198	.0203	.0207	.0212	.0217	.0222	.0227	.0233
19.2	.0188	.0192	.0196	.0201	.0206	.0211	.0215	.0220	.0226	.0231	.0236
19.4	.0190	.0195	.0199	.0204	.0209	.0214	.0219	.0224	.0229	.0234	.0240
19.6	.0193	.0198	.0202	.0207	.0212	.0217	.0222	.0227	.0232	.0238	.0243
19.8	.0196	.0201	.0205	.0210	.0215	.0220	.0225	.0230	.0236	.0241	.0247
20.0	.0199	.0204	.0208	.0213	.0218	.0223	.0228	.0234	.0239	.0245	.0250
20.2	.0202	.0207	.0211	.0216	.0221	.0227	.0232	.0237	.0243	.0248	.0254
20.4	.0205	.0210	.0215	.0220	.0225	.0230	.0235	.0241	.0246	.0252	.0258
20.6	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244	.0250	.0256	.0262
20.8	.0211	.0216	.0221	.0226	.0231	.0237	.0242	.0248	.0254	.0259	.0266
21.0	.0214	.0219	.0224	.0229	.0235	.0240	.0246	.0251	.0257	.0263	.0269

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.70	5.71	5.72	5.73	5.74	5.75	5.76	5.77	5.78	5.79	5.80
21.0	.0214	.0219	.0224	.0229	.0235	.0240	.0246	.0251	.0257	.0263	.0269
21.2	.0217	.0222	.0227	.0233	.0238	.0244	.0249	.0255	.0261	.0267	.0273
21.4	.0220	.0225	.0231	.0236	.0242	.0247	.0253	.0259	.0265	.0271	.0277
21.6	.0224	.0229	.0234	.0239	.0245	.0251	.0257	.0263	.0269	.0275	.0281
21.8	.0227	.0232	.0237	.0243	.0249	.0254	.0260	.0266	.0273	.0279	.0285
22.0	.0230	.0235	.0241	.0247	.0252	.0258	.0264	.0270	.0277	.0283	.0290
22.2	.0233	.0239	.0244	.0250	.0256	.0262	.0268	.0274	.0281	.0287	.0294
22.4	.0237	.0242	.0248	.0254	.0260	.0266	.0272	.0278	.0285	.0291	.0298
22.6	.0240	.0246	.0252	.0257	.0263	.0270	.0276	.0282	.0289	.0296	.0302
22.8	.0244	.0249	.0255	.0261	.0267	.0273	.0280	.0286	.0293	.0300	.0307
23.0	.0247	.0253	.0259	.0265	.0271	.0277	.0284	.0290	.0297	.0304	.0311
23.2	.0251	.0257	.0263	.0269	.0275	.0281	.0288	.0295	.0301	.0308	.0316
23.4	.0254	.0260	.0266	.0273	.0279	.0285	.0292	.0299	.0306	.0313	.0320
23.6	.0258	.0264	.0270	.0276	.0283	.0290	.0296	.0303	.0310	.0317	.0325
23.8	.0262	.0268	.0274	.0280	.0287	.0294	.0301	.0308	.0315	.0322	.0329
24.0	.0265	.0272	.0278	.0284	.0291	.0298	.0305	.0312	.0319	.0327	.0334
24.2	.0269	.0276	.0282	.0289	.0295	.0302	.0309	.0316	.0324	.0331	.0339
24.4	.0273	.0280	.0286	.0293	.0299	.0306	.0314	.0321	.0328	.0336	.0344
24.6	.0277	.0283	.0290	.0297	.0304	.0311	.0318	.0325	.0333	.0341	.0349
24.8	.0281	.0288	.0294	.0301	.0308	.0315	.0323	.0330	.0338	.0346	.0354
25.0	.0285	.0292	.0298	.0305	.0312	.0320	.0327	.0335	.0343	.0351	.0359
25.2	.0289	.0296	.0303	.0310	.0317	.0324	.0332	.0340	.0347	.0356	.0364
25.4	.0293	.0300	.0307	.0314	.0321	.0329	.0337	.0344	.0352	.0361	.0369
25.6	.0297	.0304	.0311	.0319	.0326	.0334	.0341	.0349	.0357	.0366	.0374
25.8	.0302	.0309	.0316	.0323	.0331	.0338	.0346	.0354	.0362	.0371	.0380
26.0	.0306	.0313	.0320	.0328	.0335	.0343	.0351	.0359	.0368	.0376	.0385
26.2	.0310	.0317	.0325	.0332	.0340	.0348	.0356	.0364	.0373	.0381	.0390
26.4	.0314	.0322	.0329	.0337	.0345	.0353	.0361	.0369	.0378	.0387	.0396
26.6	.0319	.0326	.0334	.0342	.0350	.0358	.0366	.0375	.0383	.0392	.0401
26.8	.0323	.0331	.0339	.0347	.0355	.0363	.0371	.0380	.0389	.0398	.0407
27.0	.0328	.0336	.0343	.0351	.0360	.0368	.0377	.0385	.0394	.0403	.0413
27.2	.0333	.0340	.0348	.0356	.0365	.0373	.0382	.0391	.0400	.0409	.0419
27.4	.0337	.0345	.0353	.0361	.0370	.0378	.0387	.0396	.0405	.0415	.0424
27.6	.0342	.0350	.0358	.0366	.0375	.0384	.0393	.0402	.0411	.0421	.0430
27.8	.0347	.0355	.0363	.0371	.0380	.0389	.0398	.0407	.0417	.0427	.0436
28.0	.0352	.0360	.0368	.0377	.0385	.0394	.0404	.0413	.0423	.0432	.0443

TEMP DEG C	PH 5.70	5.71	5.72	5.73	5.74	5.75	5.76	5.77	5.78	5.79	5.80
28.0	.0352	.0360	.0368	.0377	.0385	.0394	.0404	.0413	.0423	.0432	.0443
28.2	.0356	.0365	.0373	.0382	.0391	.0400	.0409	.0419	.0429	.0438	.0449
28.4	.0361	.0370	.0378	.0387	.0396	.0405	.0415	.0425	.0434	.0445	.0455
28.6	.0366	.0375	.0384	.0393	.0402	.0411	.0421	.0430	.0441	.0451	.0461
28.8	.0372	.0380	.0389	.0398	.0407	.0417	.0427	.0436	.0447	.0457	.0468
29.0	.0377	.0385	.0394	.0404	.0413	.0423	.0432	.0443	.0453	.0463	.0474
29.2	.0382	.0391	.0400	.0409	.0419	.0428	.0438	.0449	.0459	.0470	.0481
29.4	.0387	.0396	.0405	.0415	.0424	.0434	.0444	.0455	.0465	.0476	.0487
29.6	.0393	.0402	.0411	.0421	.0430	.0440	.0451	.0461	.0472	.0483	.0494
29.8	.0398	.0407	.0417	.0426	.0436	.0446	.0457	.0467	.0478	.0489	.0501
30.0	.0403	.0413	.0422	.0432	.0442	.0453	.0463	.0474	.0485	.0496	.0508
30.2	.0409	.0418	.0428	.0438	.0448	.0459	.0469	.0480	.0492	.0503	.0515
30.4	.0415	.0424	.0434	.0444	.0455	.0465	.0476	.0487	.0498	.0510	.0522
30.6	.0420	.0430	.0440	.0450	.0461	.0471	.0482	.0494	.0505	.0517	.0529
30.8	.0426	.0436	.0446	.0456	.0467	.0478	.0489	.0500	.0512	.0524	.0536
31.0	.0432	.0442	.0452	.0463	.0473	.0484	.0496	.0507	.0519	.0531	.0544
31.2	.0438	.0448	.0458	.0469	.0480	.0491	.0503	.0514	.0526	.0538	.0551
31.4	.0444	.0454	.0465	.0475	.0486	.0498	.0509	.0521	.0533	.0546	.0559
31.6	.0450	.0460	.0471	.0482	.0493	.0505	.0516	.0528	.0541	.0553	.0566
31.8	.0456	.0466	.0477	.0488	.0500	.0511	.0523	.0536	.0548	.0561	.0574
32.0	.0462	.0473	.0484	.0495	.0507	.0518	.0530	.0543	.0555	.0568	.0582
32.2	.0468	.0479	.0490	.0502	.0513	.0525	.0538	.0550	.0563	.0576	.0590
32.4	.0475	.0486	.0497	.0509	.0520	.0533	.0545	.0558	.0571	.0584	.0598
32.6	.0481	.0492	.0504	.0515	.0527	.0540	.0552	.0565	.0578	.0592	.0606
32.8	.0488	.0499	.0511	.0522	.0535	.0547	.0560	.0573	.0586	.0600	.0614
33.0	.0494	.0506	.0517	.0530	.0542	.0554	.0567	.0581	.0594	.0608	.0622
33.2	.0501	.0513	.0524	.0537	.0549	.0562	.0575	.0588	.0602	.0616	.0630
33.4	.0508	.0519	.0531	.0544	.0557	.0569	.0583	.0596	.0610	.0624	.0639
33.6	.0514	.0526	.0539	.0551	.0564	.0577	.0591	.0604	.0618	.0633	.0648
33.8	.0521	.0533	.0546	.0559	.0572	.0585	.0599	.0612	.0627	.0641	.0656
34.0	.0528	.0541	.0553	.0566	.0579	.0593	.0607	.0621	.0635	.0650	.0665
34.2	.0535	.0548	.0561	.0574	.0587	.0601	.0615	.0629	.0644	.0659	.0674
34.4	.0543	.0555	.0568	.0581	.0595	.0609	.0623	.0637	.0652	.0667	.0683
34.6	.0550	.0563	.0576	.0589	.0603	.0617	.0631	.0646	.0661	.0676	.0692
34.8	.0557	.0570	.0583	.0597	.0611	.0625	.0640	.0655	.0670	.0685	.0701
35.0	.0565	.0578	.0591	.0605	.0619	.0633	.0648	.0663	.0679	.0694	.0711

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.70	5.71	5.72	5.73	5.74	5.75	5.76	5.77	5.78	5.79	5.80
35.0	.0565	.0578	.0591	.0605	.0619	.0633	.0648	.0663	.0679	.0694	.0711
35.2	.0572	.0585	.0599	.0613	.0627	.0642	.0657	.0672	.0688	.0704	.0720
35.4	.0580	.0593	.0607	.0621	.0636	.0650	.0665	.0681	.0697	.0713	.0730
35.6	.0587	.0601	.0615	.0629	.0644	.0659	.0674	.0690	.0706	.0723	.0739
35.8	.0595	.0609	.0623	.0638	.0653	.0668	.0683	.0699	.0715	.0732	.0749
36.0	.0603	.0617	.0631	.0646	.0661	.0677	.0692	.0708	.0725	.0742	.0759
36.2	.0611	.0625	.0640	.0655	.0670	.0685	.0701	.0718	.0734	.0752	.0769
36.4	.0619	.0633	.0648	.0663	.0679	.0695	.0711	.0727	.0744	.0761	.0779
36.6	.0627	.0642	.0657	.0672	.0688	.0704	.0720	.0737	.0754	.0772	.0789
36.8	.0635	.0650	.0665	.0681	.0697	.0713	.0730	.0747	.0764	.0782	.0800
37.0	.0644	.0659	.0674	.0690	.0706	.0722	.0739	.0756	.0774	.0792	.0810
37.2	.0652	.0667	.0683	.0699	.0715	.0732	.0749	.0766	.0784	.0802	.0821
37.4	.0661	.0676	.0692	.0708	.0725	.0741	.0759	.0776	.0794	.0813	.0832
37.6	.0669	.0685	.0701	.0717	.0734	.0751	.0769	.0786	.0805	.0824	.0843
37.8	.0678	.0694	.0710	.0727	.0744	.0761	.0779	.0797	.0815	.0834	.0854
38.0	.0687	.0703	.0719	.0736	.0753	.0771	.0789	.0807	.0826	.0845	.0865
38.2	.0696	.0712	.0729	.0746	.0763	.0781	.0799	.0818	.0837	.0856	.0876
38.4	.0705	.0722	.0738	.0756	.0773	.0791	.0810	.0828	.0848	.0867	.0888
38.6	.0714	.0731	.0748	.0765	.0783	.0801	.0820	.0839	.0859	.0879	.0899
38.8	.0724	.0740	.0758	.0775	.0793	.0812	.0831	.0850	.0870	.0890	.0911
39.0	.0733	.0750	.0767	.0785	.0804	.0822	.0841	.0861	.0881	.0902	.0923
39.2	.0742	.0760	.0777	.0796	.0814	.0833	.0852	.0872	.0893	.0913	.0935
39.4	.0752	.0770	.0788	.0806	.0825	.0844	.0863	.0884	.0904	.0925	.0947
39.6	.0762	.0780	.0798	.0816	.0835	.0855	.0875	.0895	.0916	.0937	.0959
39.8	.0772	.0790	.0808	.0827	.0846	.0866	.0886	.0906	.0928	.0949	.0971
40.0	.0782	.0800	.0818	.0837	.0857	.0877	.0897	.0918	.0940	.0961	.0984

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.80	5.81	5.82	5.83	5.84	5.85	5.86	5.87	5.88	5.89	5.90
.0	.00522	.00534	.00546	.00559	.00572	.00585	.00599	.00613	.00627	.00642	.00657
.2	.00531	.00543	.00556	.00568	.00582	.00595	.00609	.00623	.00638	.00653	.00668
.4	.00540	.00552	.00565	.00578	.00592	.00605	.00619	.00634	.00649	.00664	.00679
.6	.00549	.00561	.00575	.00588	.00602	.00616	.00630	.00645	.00660	.00675	.00691
.8	.00558	.00571	.00584	.00598	.00612	.00626	.00641	.00655	.00671	.00686	.00702
1.0	.00567	.00581	.00594	.00608	.00622	.00637	.00651	.00667	.00682	.00698	.00714
1.2	.00577	.00590	.00604	.00618	.00633	.00647	.00662	.00678	.00694	.00710	.00726
1.4	.00587	.00600	.00614	.00629	.00643	.00658	.00673	.00689	.00705	.00722	.00738
1.6	.00596	.00610	.00625	.00639	.00654	.00669	.00685	.00701	.00717	.00734	.00751
1.8	.00606	.00621	.00635	.00650	.00665	.00680	.00696	.00713	.00729	.00746	.00763
2.0	.00617	.00631	.00646	.00661	.00676	.00692	.00708	.00724	.00741	.00759	.00776
2.2	.00627	.00642	.00656	.00672	.00687	.00703	.00720	.00737	.00754	.00771	.00789
2.4	.00637	.00652	.00667	.00683	.00699	.00715	.00732	.00749	.00766	.00784	.00802
2.6	.00648	.00663	.00679	.00694	.00711	.00727	.00744	.00761	.00779	.00797	.00816
2.8	.00659	.00674	.00690	.00706	.00722	.00739	.00756	.00774	.00792	.00810	.00829
3.0	.00670	.00685	.00701	.00718	.00734	.00751	.00769	.00787	.00805	.00824	.00843
3.2	.00681	.00697	.00713	.00730	.00747	.00764	.00782	.00800	.00819	.00838	.00857
3.4	.00692	.00708	.00725	.00742	.00759	.00777	.00795	.00813	.00832	.00852	.00871
3.6	.00704	.00720	.00737	.00754	.00771	.00789	.00808	.00827	.00846	.00866	.00886
3.8	.00715	.00732	.00749	.00766	.00784	.00802	.00821	.00840	.00860	.00880	.00900
4.0	.00727	.00744	.00761	.00779	.00797	.00816	.00835	.00854	.00874	.00894	.00915
4.2	.00739	.00756	.00774	.00792	.00810	.00829	.00848	.00868	.00888	.00909	.00930
4.4	.00751	.00769	.00787	.00805	.00824	.00843	.00862	.00883	.00903	.00924	.00946
4.6	.00764	.00781	.00799	.00818	.00837	.00857	.00877	.00897	.00918	.00939	.00961
4.8	.00776	.00794	.00813	.00832	.00851	.00871	.00891	.00912	.00933	.00955	.00977
5.0	.00789	.00807	.00826	.00845	.00865	.00885	.00906	.00927	.00948	.00970	.00993
5.2	.00802	.00820	.00839	.00859	.00879	.00899	.00920	.00942	.00964	.00986	.01009
5.4	.00815	.00834	.00853	.00873	.00893	.00914	.00935	.00957	.00980	.01002	.01026
5.6	.00828	.00847	.00867	.00887	.00908	.00929	.00951	.00973	.00996	.01019	.01042
5.8	.00842	.00861	.00881	.00902	.00923	.00944	.00966	.00989	.01012	.01035	.01059
6.0	.00855	.00875	.00896	.00916	.00938	.00960	.00982	.01005	.01028	.01052	.01077
6.2	.00869	.00889	.00910	.00931	.00953	.00975	.00998	.01021	.01045	.01069	.01094
6.4	.00883	.00904	.00925	.00946	.00968	.00991	.01014	.01038	.01062	.01087	.01112
6.6	.00898	.00918	.00940	.00962	.00984	.01007	.01030	.01054	.01079	.01104	.01130
6.8	.00912	.00933	.00955	.00977	.01000	.01023	.01047	.01072	.01096	.01122	.01148
7.0	.00927	.00948	.00970	.00993	.01016	.01040	.01064	.01089	.01114	.01140	.01167

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.80	5.81	5.82	5.83	5.84	5.85	5.86	5.87	5.88	5.89	5.90
7.0	.00927	.00948	.00970	.00993	.01016	.01040	.01064	.01089	.01114	.01140	.01167
7.2	.00942	.00964	.00986	.01009	.01033	.01057	.01081	.01106	.01132	.01159	.01185
7.4	.00957	.00979	.01002	.01025	.01049	.01074	.01099	.01124	.01150	.01177	.01205
7.6	.00972	.00995	.01018	.01042	.01066	.01091	.01116	.01142	.01169	.01196	.01224
7.8	.00988	.01011	.01034	.01058	.01083	.01108	.01134	.01161	.01188	.01215	.01244
8.0	.0100	.0103	.0105	.0108	.0110	.0113	.0115	.0118	.0121	.0123	.0126
8.2	.0102	.0104	.0107	.0109	.0112	.0114	.0117	.0120	.0123	.0125	.0128
8.4	.0104	.0106	.0108	.0111	.0114	.0116	.0119	.0122	.0125	.0127	.0130
8.6	.0105	.0108	.0110	.0113	.0115	.0118	.0121	.0124	.0127	.0129	.0133
8.8	.0107	.0109	.0112	.0115	.0117	.0120	.0123	.0126	.0129	.0132	.0135
9.0	.0109	.0111	.0114	.0116	.0119	.0122	.0125	.0128	.0131	.0134	.0137
9.2	.0110	.0113	.0116	.0118	.0121	.0124	.0127	.0130	.0133	.0136	.0139
9.4	.0112	.0115	.0117	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141
9.6	.0114	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0143
9.8	.0116	.0118	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0146
10.0	.0118	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0145	.0148
10.2	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0144	.0147	.0150
10.4	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0146	.0149	.0153
10.6	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0145	.0148	.0152	.0155
10.8	.0125	.0128	.0131	.0134	.0137	.0140	.0144	.0147	.0150	.0154	.0157
11.0	.0127	.0130	.0133	.0136	.0139	.0143	.0146	.0149	.0153	.0156	.0160
11.2	.0129	.0132	.0135	.0138	.0142	.0145	.0148	.0152	.0155	.0159	.0162
11.4	.0131	.0134	.0137	.0140	.0144	.0147	.0150	.0154	.0158	.0161	.0165
11.6	.0133	.0136	.0139	.0143	.0146	.0149	.0153	.0156	.0160	.0164	.0168
11.8	.0135	.0138	.0142	.0145	.0148	.0152	.0155	.0159	.0163	.0166	.0170
12.0	.0137	.0141	.0144	.0147	.0151	.0154	.0158	.0161	.0165	.0169	.0173
12.2	.0139	.0143	.0146	.0149	.0153	.0156	.0160	.0164	.0168	.0172	.0176
12.4	.0142	.0145	.0148	.0152	.0155	.0159	.0163	.0166	.0170	.0174	.0178
12.6	.0144	.0147	.0151	.0154	.0158	.0161	.0165	.0169	.0173	.0177	.0181
12.8	.0146	.0149	.0153	.0156	.0160	.0164	.0168	.0172	.0176	.0180	.0184
13.0	.0148	.0152	.0155	.0159	.0163	.0166	.0170	.0174	.0178	.0182	.0187
13.2	.0151	.0154	.0158	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0190
13.4	.0153	.0156	.0160	.0164	.0168	.0172	.0176	.0180	.0184	.0188	.0192
13.6	.0155	.0159	.0163	.0166	.0170	.0174	.0178	.0182	.0187	.0191	.0195
13.8	.0158	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0190	.0194	.0198
14.0	.0160	.0164	.0168	.0172	.0176	.0180	.0184	.0188	.0192	.0197	.0202

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.80	5.81	5.82	5.83	5.84	5.85	5.86	5.87	5.88	5.89	5.90
14.0	.0160	.0164	.0168	.0172	.0176	.0180	.0184	.0188	.0192	.0197	.0202
14.2	.0163	.0166	.0170	.0174	.0178	.0182	.0187	.0191	.0195	.0200	.0205
14.4	.0165	.0169	.0173	.0177	.0181	.0185	.0189	.0194	.0198	.0203	.0208
14.6	.0168	.0171	.0175	.0180	.0184	.0188	.0192	.0197	.0201	.0206	.0211
14.8	.0170	.0174	.0178	.0182	.0187	.0191	.0195	.0200	.0205	.0209	.0214
15.0	.0173	.0177	.0181	.0185	.0189	.0194	.0198	.0203	.0208	.0212	.0217
15.2	.0175	.0179	.0184	.0188	.0192	.0197	.0201	.0206	.0211	.0216	.0221
15.4	.0178	.0182	.0186	.0191	.0195	.0200	.0204	.0209	.0214	.0219	.0224
15.6	.0181	.0185	.0189	.0194	.0198	.0203	.0207	.0212	.0217	.0222	.0227
15.8	.0183	.0188	.0192	.0197	.0201	.0206	.0211	.0216	.0221	.0226	.0231
16.0	.0186	.0191	.0195	.0200	.0204	.0209	.0214	.0219	.0224	.0229	.0234
16.2	.0189	.0193	.0198	.0203	.0207	.0212	.0217	.0222	.0227	.0233	.0238
16.4	.0192	.0196	.0201	.0206	.0210	.0215	.0220	.0225	.0231	.0236	.0242
16.6	.0195	.0199	.0204	.0209	.0214	.0219	.0224	.0229	.0234	.0240	.0245
16.8	.0198	.0202	.0207	.0212	.0217	.0222	.0227	.0232	.0238	.0243	.0249
17.0	.0201	.0205	.0210	.0215	.0220	.0225	.0230	.0236	.0241	.0247	.0253
17.2	.0204	.0208	.0213	.0218	.0223	.0229	.0234	.0239	.0245	.0251	.0256
17.4	.0207	.0212	.0217	.0222	.0227	.0232	.0237	.0243	.0249	.0254	.0260
17.6	.0210	.0215	.0220	.0225	.0230	.0235	.0241	.0247	.0252	.0258	.0264
17.8	.0213	.0218	.0223	.0228	.0234	.0239	.0245	.0250	.0256	.0262	.0268
18.0	.0216	.0221	.0226	.0232	.0237	.0243	.0248	.0254	.0260	.0266	.0272
18.2	.0219	.0225	.0230	.0235	.0241	.0246	.0252	.0258	.0264	.0270	.0276
18.4	.0223	.0228	.0233	.0239	.0244	.0250	.0256	.0262	.0268	.0274	.0280
18.6	.0226	.0231	.0237	.0242	.0248	.0254	.0259	.0266	.0272	.0278	.0285
18.8	.0229	.0235	.0240	.0246	.0251	.0257	.0263	.0269	.0276	.0282	.0289
19.0	.0233	.0238	.0244	.0249	.0255	.0261	.0267	.0273	.0280	.0286	.0293
19.2	.0236	.0242	.0247	.0253	.0259	.0265	.0271	.0278	.0284	.0291	.0297
19.4	.0240	.0245	.0251	.0257	.0263	.0269	.0275	.0282	.0288	.0295	.0302
19.6	.0243	.0249	.0255	.0261	.0267	.0273	.0279	.0286	.0292	.0299	.0306
19.8	.0247	.0253	.0258	.0264	.0271	.0277	.0283	.0290	.0297	.0304	.0311
20.0	.0250	.0256	.0262	.0268	.0275	.0281	.0288	.0294	.0301	.0308	.0315
20.2	.0254	.0260	.0266	.0272	.0279	.0285	.0292	.0299	.0306	.0313	.0320
20.4	.0258	.0264	.0270	.0276	.0283	.0289	.0296	.0303	.0310	.0317	.0325
20.6	.0262	.0268	.0274	.0280	.0287	.0294	.0300	.0307	.0315	.0322	.0329
20.8	.0266	.0272	.0278	.0285	.0291	.0298	.0305	.0312	.0319	.0327	.0334
21.0	.0269	.0276	.0282	.0289	.0295	.0302	.0309	.0317	.0324	.0331	.0339

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.80	5.81	5.82	5.83	5.84	5.85	5.86	5.87	5.88	5.89	5.90
21.0	.0269	.0276	.0282	.0289	.0295	.0302	.0309	.0317	.0324	.0331	.0339
21.2	.0273	.0280	.0286	.0293	.0300	.0307	.0314	.0321	.0329	.0336	.0344
21.4	.0277	.0284	.0290	.0297	.0304	.0311	.0318	.0326	.0333	.0341	.0349
21.6	.0281	.0288	.0295	.0301	.0309	.0316	.0323	.0331	.0338	.0346	.0354
21.8	.0285	.0292	.0299	.0306	.0313	.0320	.0328	.0335	.0343	.0351	.0359
22.0	.0290	.0296	.0303	.0310	.0318	.0325	.0333	.0340	.0348	.0356	.0365
22.2	.0294	.0301	.0308	.0315	.0322	.0330	.0337	.0345	.0353	.0361	.0370
22.4	.0298	.0305	.0312	.0319	.0327	.0334	.0342	.0350	.0358	.0367	.0375
22.6	.0302	.0309	.0317	.0324	.0332	.0339	.0347	.0355	.0364	.0372	.0381
22.8	.0307	.0314	.0321	.0329	.0336	.0344	.0352	.0360	.0369	.0377	.0386
23.0	.0311	.0318	.0326	.0333	.0341	.0349	.0357	.0366	.0374	.0383	.0392
23.2	.0316	.0323	.0331	.0338	.0346	.0354	.0362	.0371	.0380	.0388	.0397
23.4	.0320	.0328	.0335	.0343	.0351	.0359	.0368	.0376	.0385	.0394	.0403
23.6	.0325	.0332	.0340	.0348	.0356	.0364	.0373	.0382	.0391	.0400	.0409
23.8	.0329	.0337	.0345	.0353	.0361	.0370	.0378	.0387	.0396	.0405	.0415
24.0	.0334	.0342	.0350	.0358	.0366	.0375	.0384	.0393	.0402	.0411	.0421
24.2	.0339	.0347	.0355	.0363	.0372	.0380	.0389	.0398	.0408	.0417	.0427
24.4	.0344	.0352	.0360	.0368	.0377	.0386	.0395	.0404	.0413	.0423	.0433
24.6	.0349	.0357	.0365	.0374	.0382	.0391	.0400	.0410	.0419	.0429	.0439
24.8	.0354	.0362	.0370	.0379	.0388	.0397	.0406	.0416	.0425	.0435	.0445
25.0	.0359	.0367	.0376	.0384	.0393	.0403	.0412	.0421	.0431	.0441	.0452
25.2	.0364	.0372	.0381	.0390	.0399	.0408	.0418	.0427	.0437	.0448	.0458
25.4	.0369	.0378	.0386	.0395	.0405	.0414	.0424	.0434	.0444	.0454	.0465
25.6	.0374	.0383	.0392	.0401	.0410	.0420	.0430	.0440	.0450	.0460	.0471
25.8	.0380	.0388	.0397	.0407	.0416	.0426	.0436	.0446	.0456	.0467	.0478
26.0	.0385	.0394	.0403	.0412	.0422	.0432	.0442	.0452	.0463	.0474	.0485
26.2	.0390	.0399	.0409	.0418	.0428	.0438	.0448	.0459	.0469	.0480	.0491
26.4	.0396	.0405	.0415	.0424	.0434	.0444	.0455	.0465	.0476	.0487	.0498
26.6	.0401	.0411	.0420	.0430	.0440	.0450	.0461	.0472	.0483	.0494	.0505
26.8	.0407	.0417	.0426	.0436	.0446	.0457	.0467	.0478	.0489	.0501	.0512
27.0	.0413	.0422	.0432	.0442	.0453	.0463	.0474	.0485	.0496	.0508	.0520
27.2	.0419	.0428	.0438	.0449	.0459	.0470	.0481	.0492	.0503	.0515	.0527
27.4	.0424	.0434	.0444	.0455	.0465	.0476	.0487	.0499	.0510	.0522	.0534
27.6	.0430	.0440	.0451	.0461	.0472	.0483	.0494	.0506	.0517	.0529	.0542
27.8	.0436	.0447	.0457	.0468	.0479	.0490	.0501	.0513	.0525	.0537	.0549
28.0	.0443	.0453	.0463	.0474	.0485	.0496	.0508	.0520	.0532	.0544	.0557

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.80	5.81	5.82	5.83	5.84	5.85	5.86	5.87	5.88	5.89	5.90
28.0	.0443	.0453	.0463	.0474	.0485	.0496	.0508	.0520	.0532	.0544	.0557
28.2	.0449	.0459	.0470	.0481	.0492	.0503	.0515	.0527	.0539	.0552	.0565
28.4	.0455	.0466	.0476	.0487	.0499	.0510	.0522	.0534	.0547	.0560	.0573
28.6	.0461	.0472	.0483	.0494	.0506	.0518	.0530	.0542	.0555	.0567	.0581
28.8	.0468	.0479	.0490	.0501	.0513	.0525	.0537	.0549	.0562	.0575	.0589
29.0	.0474	.0485	.0496	.0508	.0520	.0532	.0544	.0557	.0570	.0583	.0597
29.2	.0481	.0492	.0503	.0515	.0527	.0539	.0552	.0565	.0578	.0591	.0605
29.4	.0487	.0499	.0510	.0522	.0534	.0547	.0560	.0573	.0586	.0600	.0613
29.6	.0494	.0506	.0517	.0529	.0542	.0554	.0567	.0580	.0594	.0608	.0622
29.8	.0501	.0513	.0524	.0537	.0549	.0562	.0575	.0588	.0602	.0616	.0631
30.0	.0508	.0520	.0532	.0544	.0557	.0570	.0583	.0597	.0610	.0625	.0639
30.2	.0515	.0527	.0539	.0552	.0564	.0578	.0591	.0605	.0619	.0633	.0648
30.4	.0522	.0534	.0546	.0559	.0572	.0585	.0599	.0613	.0627	.0642	.0657
30.6	.0529	.0541	.0554	.0567	.0580	.0594	.0607	.0621	.0636	.0651	.0666
30.8	.0536	.0549	.0561	.0575	.0588	.0602	.0616	.0630	.0645	.0660	.0675
31.0	.0544	.0556	.0569	.0582	.0596	.0610	.0624	.0639	.0653	.0669	.0684
31.2	.0551	.0564	.0577	.0590	.0604	.0618	.0633	.0647	.0662	.0678	.0694
31.4	.0559	.0572	.0585	.0598	.0612	.0627	.0641	.0656	.0671	.0687	.0703
31.6	.0566	.0579	.0593	.0607	.0621	.0635	.0650	.0665	.0681	.0696	.0713
31.8	.0574	.0587	.0601	.0615	.0629	.0644	.0659	.0674	.0690	.0706	.0722
32.0	.0582	.0595	.0609	.0623	.0638	.0653	.0668	.0683	.0699	.0715	.0732
32.2	.0590	.0603	.0617	.0632	.0646	.0661	.0677	.0693	.0709	.0725	.0742
32.4	.0598	.0611	.0626	.0640	.0655	.0670	.0686	.0702	.0718	.0735	.0752
32.6	.0606	.0620	.0634	.0649	.0664	.0679	.0695	.0711	.0728	.0745	.0762
32.8	.0614	.0628	.0643	.0658	.0673	.0689	.0705	.0721	.0738	.0755	.0773
33.0	.0622	.0637	.0651	.0667	.0682	.0698	.0714	.0731	.0748	.0765	.0783
33.2	.0630	.0645	.0660	.0676	.0691	.0707	.0724	.0741	.0758	.0775	.0794
33.4	.0639	.0654	.0669	.0685	.0701	.0717	.0734	.0751	.0768	.0786	.0804
33.6	.0648	.0663	.0678	.0694	.0710	.0726	.0743	.0761	.0778	.0797	.0815
33.8	.0656	.0671	.0687	.0703	.0719	.0736	.0753	.0771	.0789	.0807	.0826
34.0	.0665	.0680	.0696	.0713	.0729	.0746	.0763	.0781	.0799	.0818	.0837
34.2	.0674	.0690	.0706	.0722	.0739	.0756	.0774	.0792	.0810	.0829	.0848
34.4	.0683	.0699	.0715	.0732	.0749	.0766	.0784	.0802	.0821	.0840	.0860
34.6	.0692	.0708	.0725	.0742	.0759	.0776	.0794	.0813	.0832	.0851	.0871
34.8	.0701	.0718	.0734	.0751	.0769	.0787	.0805	.0824	.0843	.0863	.0883
35.0	.0711	.0727	.0744	.0761	.0779	.0797	.0816	.0835	.0854	.0874	.0894

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.80	5.81	5.82	5.83	5.84	5.85	5.86	5.87	5.88	5.89	5.90
35.0	.0711	.0727	.0744	.0761	.0779	.0797	.0816	.0835	.0854	.0874	.0894
35.2	.0720	.0737	.0754	.0772	.0789	.0808	.0827	.0846	.0866	.0886	.0906
35.4	.0730	.0747	.0764	.0782	.0800	.0819	.0838	.0857	.0877	.0897	.0918
35.6	.0739	.0757	.0774	.0792	.0811	.0829	.0849	.0869	.0889	.0909	.0931
35.8	.0749	.0767	.0784	.0803	.0821	.0840	.0860	.0880	.0900	.0921	.0943
36.0	.0759	.0777	.0795	.0813	.0832	.0852	.0871	.0892	.0912	.0934	.0955
36.2	.0769	.0787	.0805	.0824	.0843	.0863	.0883	.0903	.0924	.0946	.0968
36.4	.0779	.0797	.0816	.0835	.0854	.0874	.0895	.0915	.0937	.0958	.0981
36.6	.0789	.0808	.0827	.0846	.0866	.0886	.0906	.0927	.0949	.0971	.0994
36.8	.0800	.0818	.0838	.0857	.0877	.0897	.0918	.0940	.0961	.0984	.1007
37.0	.0810	.0829	.0849	.0868	.0889	.0909	.0930	.0952	.0974	.0997	.1020
37.2	.0821	.0840	.0860	.0880	.0900	.0921	.0943	.0964	.0987	.1010	.1033
37.4	.0832	.0851	.0871	.0891	.0912	.0933	.0955	.0977	.1000	.1023	.1047
37.6	.0843	.0862	.0882	.0903	.0924	.0945	.0967	.0990	.1013	.1037	.1061
37.8	.0854	.0874	.0894	.0915	.0936	.0958	.0980	.1003	.1026	.1050	.1075
38.0	.0865	.0885	.0906	.0927	.0948	.0970	.0993	.1016	.1040	.1064	.1089
38.2	.0876	.0897	.0917	.0939	.0961	.0983	.1006	.1029	.1053	.1078	.1103
38.4	.0888	.0908	.0929	.0951	.0973	.0996	.1019	.1043	.1067	.1092	.1117
38.6	.0899	.0920	.0941	.0963	.0986	.1009	.1032	.1056	.1081	.1106	.1132
38.8	.0911	.0932	.0954	.0976	.0999	.1022	.1046	.1070	.1095	.1120	.1146
39.0	.0923	.0944	.0966	.0989	.1012	.1035	.1059	.1084	.1109	.1135	.1161
39.2	.0935	.0956	.0979	.1001	.1025	.1048	.1073	.1098	.1123	.1149	.1176
39.4	.0947	.0969	.0991	.1014	.1038	.1062	.1087	.1112	.1138	.1164	.1191
39.6	.0959	.0981	.1004	.1027	.1051	.1076	.1101	.1126	.1153	.1179	.1207
39.8	.0971	.0994	.1017	.1041	.1065	.1090	.1115	.1141	.1167	.1195	.1222
40.0	.0984	.1007	.1030	.1054	.1079	.1104	.1129	.1156	.1183	.1210	.1238

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.90	5.91	5.92	5.93	5.94	5.95	5.96	5.97	5.98	5.99	6.00
.0	.00657	.00672	.00688	.00704	.00720	.00737	.00754	.00772	.00790	.00808	.00827
.2	.00668	.00683	.00699	.00716	.00732	.00749	.00767	.00785	.00803	.00822	.00841
.4	.00679	.00695	.00711	.00728	.00745	.00762	.00780	.00798	.00817	.00836	.00855
.6	.00691	.00707	.00723	.00740	.00757	.00775	.00793	.00811	.00830	.00850	.00870
.8	.00702	.00719	.00735	.00753	.00770	.00788	.00806	.00825	.00844	.00864	.00884
1.0	.00714	.00731	.00748	.00765	.00783	.00801	.00820	.00839	.00859	.00879	.00899
1.2	.00726	.00743	.00760	.00778	.00796	.00815	.00834	.00853	.00873	.00893	.00914
1.4	.00738	.00756	.00773	.00791	.00810	.00829	.00848	.00868	.00888	.00908	.00930
1.6	.00751	.00768	.00786	.00805	.00823	.00842	.00862	.00882	.00903	.00924	.00945
1.8	.00763	.00781	.00799	.00818	.00837	.00857	.00877	.00897	.00918	.00939	.00961
2.0	.00776	.00794	.00813	.00832	.00851	.00871	.00891	.00912	.00933	.00955	.00977
2.2	.00789	.00808	.00826	.00846	.00865	.00886	.00906	.00927	.00949	.00971	.00994
2.4	.00802	.00821	.00840	.00860	.00880	.00900	.00921	.00943	.00965	.00987	.01010
2.6	.00816	.00835	.00854	.00874	.00894	.00915	.00937	.00958	.00981	.01004	.01027
2.8	.00829	.00849	.00868	.00889	.00909	.00931	.00952	.00974	.00997	.01020	.01044
3.0	.00843	.00863	.00883	.00903	.00924	.00946	.00968	.00991	.01014	.01037	.01061
3.2	.00857	.00877	.00898	.00918	.00940	.00962	.00984	.01007	.01030	.01054	.01079
3.4	.00871	.00892	.00912	.00934	.00955	.00978	.01000	.01024	.01048	.01072	.01097
3.6	.00886	.00906	.00928	.00949	.00971	.00994	.01017	.01041	.01065	.01090	.01115
3.8	.00900	.00921	.00943	.00965	.00987	.01010	.01034	.01058	.01082	.01108	.01134
4.0	.00915	.00937	.00958	.00981	.01004	.01027	.01051	.01075	.01100	.01126	.01152
4.2	.00930	.00952	.00974	.00997	.01020	.01044	.01068	.01093	.01118	.01145	.01171
4.4	.00946	.00968	.00990	.01013	.01037	.01061	.01086	.01111	.01137	.01163	.01190
4.6	.00961	.00984	.01006	.01030	.01054	.01078	.01104	.01129	.01156	.01182	.01210
4.8	.00977	.01000	.01023	.01047	.01071	.01096	.01122	.01148	.01175	.01202	.01230
5.0	.00993	.01016	.01040	.01064	.01089	.01114	.01140	.01167	.01194	.01222	.01250
5.2	.0101	.0103	.0106	.0108	.0111	.0113	.0116	.0119	.0121	.0124	.0127
5.4	.0103	.0105	.0107	.0110	.0112	.0115	.0118	.0121	.0123	.0126	.0129
5.6	.0104	.0107	.0109	.0112	.0114	.0117	.0120	.0122	.0125	.0128	.0131
5.8	.0106	.0108	.0111	.0114	.0116	.0119	.0122	.0124	.0127	.0130	.0133
6.0	.0108	.0110	.0113	.0115	.0118	.0121	.0124	.0126	.0129	.0132	.0136
6.2	.0109	.0112	.0115	.0117	.0120	.0123	.0126	.0129	.0132	.0135	.0138
6.4	.0111	.0114	.0116	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140
6.6	.0113	.0116	.0118	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142
6.8	.0115	.0117	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0145
7.0	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0144	.0147

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.90	5.91	5.92	5.93	5.94	5.95	5.96	5.97	5.98	5.99	6.00
7.0	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0144	.0147
7.2	.0119	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0143	.0146	.0149
7.4	.0120	.0123	.0126	.0129	.0132	.0135	.0138	.0142	.0145	.0148	.0152
7.6	.0122	.0125	.0128	.0131	.0134	.0137	.0141	.0144	.0147	.0151	.0154
7.8	.0124	.0127	.0130	.0133	.0136	.0140	.0143	.0146	.0150	.0153	.0157
8.0	.0126	.0129	.0132	.0135	.0139	.0142	.0145	.0148	.0152	.0155	.0159
8.2	.0128	.0131	.0134	.0138	.0141	.0144	.0147	.0151	.0154	.0158	.0162
8.4	.0130	.0133	.0137	.0140	.0143	.0146	.0150	.0153	.0157	.0160	.0164
8.6	.0133	.0136	.0139	.0142	.0145	.0149	.0152	.0156	.0159	.0163	.0167
8.8	.0135	.0138	.0141	.0144	.0148	.0151	.0155	.0158	.0162	.0166	.0169
9.0	.0137	.0140	.0143	.0147	.0150	.0153	.0157	.0161	.0164	.0168	.0172
9.2	.0139	.0142	.0145	.0149	.0152	.0156	.0160	.0163	.0167	.0171	.0175
9.4	.0141	.0144	.0148	.0151	.0155	.0158	.0162	.0166	.0170	.0174	.0178
9.6	.0143	.0147	.0150	.0154	.0157	.0161	.0165	.0168	.0172	.0176	.0180
9.8	.0146	.0149	.0153	.0156	.0160	.0163	.0167	.0171	.0175	.0179	.0183
10.0	.0148	.0151	.0155	.0159	.0162	.0166	.0170	.0174	.0178	.0182	.0186
10.2	.0150	.0154	.0157	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0189
10.4	.0153	.0156	.0160	.0164	.0167	.0171	.0175	.0179	.0184	.0188	.0192
10.6	.0155	.0159	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0191	.0195
10.8	.0157	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0189	.0194	.0198
11.0	.0160	.0164	.0168	.0171	.0175	.0179	.0184	.0188	.0192	.0197	.0201
11.2	.0162	.0166	.0170	.0174	.0178	.0182	.0187	.0191	.0195	.0200	.0205
11.4	.0165	.0169	.0173	.0177	.0181	.0185	.0189	.0194	.0198	.0203	.0208
11.6	.0168	.0171	.0175	.0180	.0184	.0188	.0192	.0197	.0201	.0206	.0211
11.8	.0170	.0174	.0178	.0182	.0187	.0191	.0195	.0200	.0205	.0209	.0214
12.0	.0173	.0177	.0181	.0185	.0190	.0194	.0198	.0203	.0208	.0213	.0218
12.2	.0176	.0180	.0184	.0188	.0192	.0197	.0202	.0206	.0211	.0216	.0221
12.4	.0178	.0182	.0187	.0191	.0195	.0200	.0205	.0209	.0214	.0219	.0224
12.6	.0181	.0185	.0190	.0194	.0199	.0203	.0208	.0213	.0218	.0223	.0228
12.8	.0184	.0188	.0193	.0197	.0202	.0206	.0211	.0216	.0221	.0226	.0231
13.0	.0187	.0191	.0195	.0200	.0205	.0209	.0214	.0219	.0224	.0230	.0235
13.2	.0190	.0194	.0199	.0203	.0208	.0213	.0218	.0223	.0228	.0233	.0239
13.4	.0192	.0197	.0202	.0206	.0211	.0216	.0221	.0226	.0231	.0237	.0242
13.6	.0195	.0200	.0205	.0209	.0214	.0219	.0224	.0230	.0235	.0240	.0246
13.8	.0198	.0203	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244	.0250
14.0	.0202	.0206	.0211	.0216	.0221	.0226	.0231	.0237	.0242	.0248	.0254

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.90	5.91	5.92	5.93	5.94	5.95	5.96	5.97	5.98	5.99	6.00
14.0	.0202	.0206	.0211	.0216	.0221	.0226	.0231	.0237	.0242	.0248	.0254
14.2	.0205	.0209	.0214	.0219	.0224	.0230	.0235	.0240	.0246	.0252	.0258
14.4	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244	.0250	.0256	.0262
14.6	.0211	.0216	.0221	.0226	.0231	.0237	.0242	.0248	.0254	.0259	.0266
14.8	.0214	.0219	.0224	.0229	.0235	.0240	.0246	.0252	.0257	.0263	.0270
15.0	.0217	.0222	.0228	.0233	.0238	.0244	.0250	.0255	.0261	.0267	.0274
15.2	.0221	.0226	.0231	.0237	.0242	.0248	.0253	.0259	.0265	.0272	.0278
15.4	.0224	.0229	.0235	.0240	.0246	.0251	.0257	.0263	.0269	.0276	.0282
15.6	.0227	.0233	.0238	.0244	.0249	.0255	.0261	.0267	.0273	.0280	.0286
15.8	.0231	.0236	.0242	.0247	.0253	.0259	.0265	.0271	.0278	.0284	.0291
16.0	.0234	.0240	.0245	.0251	.0257	.0263	.0269	.0275	.0282	.0288	.0295
16.2	.0238	.0244	.0249	.0255	.0261	.0267	.0273	.0280	.0286	.0293	.0300
16.4	.0242	.0247	.0253	.0259	.0265	.0271	.0277	.0284	.0290	.0297	.0304
16.6	.0245	.0251	.0257	.0263	.0269	.0275	.0282	.0288	.0295	.0302	.0309
16.8	.0249	.0255	.0261	.0267	.0273	.0279	.0286	.0292	.0299	.0306	.0313
17.0	.0253	.0259	.0265	.0271	.0277	.0283	.0290	.0297	.0304	.0311	.0318
17.2	.0256	.0262	.0269	.0275	.0281	.0288	.0294	.0301	.0308	.0315	.0323
17.4	.0260	.0266	.0273	.0279	.0285	.0292	.0299	.0306	.0313	.0320	.0328
17.6	.0264	.0270	.0277	.0283	.0290	.0296	.0303	.0310	.0318	.0325	.0333
17.8	.0268	.0274	.0281	.0287	.0294	.0301	.0308	.0315	.0322	.0330	.0338
18.0	.0272	.0279	.0285	.0292	.0298	.0305	.0312	.0320	.0327	.0335	.0343
18.2	.0276	.0283	.0289	.0296	.0303	.0310	.0317	.0325	.0332	.0340	.0348
18.4	.0280	.0287	.0294	.0300	.0307	.0315	.0322	.0329	.0337	.0345	.0353
18.6	.0285	.0291	.0298	.0305	.0312	.0319	.0327	.0334	.0342	.0350	.0358
18.8	.0289	.0295	.0302	.0309	.0317	.0324	.0331	.0339	.0347	.0355	.0363
19.0	.0293	.0300	.0307	.0314	.0321	.0329	.0336	.0344	.0352	.0360	.0369
19.2	.0297	.0304	.0311	.0319	.0326	.0334	.0341	.0349	.0357	.0366	.0374
19.4	.0302	.0309	.0316	.0323	.0331	.0339	.0346	.0355	.0363	.0371	.0380
19.6	.0306	.0313	.0321	.0328	.0336	.0344	.0352	.0360	.0368	.0377	.0385
19.8	.0311	.0318	.0325	.0333	.0341	.0349	.0357	.0365	.0374	.0382	.0391
20.0	.0315	.0323	.0330	.0338	.0346	.0354	.0362	.0370	.0379	.0388	.0397
20.2	.0320	.0327	.0335	.0343	.0351	.0359	.0367	.0376	.0385	.0394	.0403
20.4	.0325	.0332	.0340	.0348	.0356	.0364	.0373	.0381	.0390	.0399	.0409
20.6	.0329	.0337	.0345	.0353	.0361	.0370	.0378	.0387	.0396	.0405	.0415
20.8	.0334	.0342	.0350	.0358	.0366	.0375	.0384	.0393	.0402	.0411	.0421
21.0	.0339	.0347	.0355	.0363	.0372	.0381	.0389	.0398	.0408	.0417	.0427

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.90	5.91	5.92	5.93	5.94	5.95	5.96	5.97	5.98	5.99	6.00
21.0	.0339	.0347	.0355	.0363	.0372	.0381	.0389	.0398	.0408	.0417	.0427
21.2	.0344	.0352	.0360	.0369	.0377	.0386	.0395	.0404	.0414	.0423	.0433
21.4	.0349	.0357	.0366	.0374	.0383	.0392	.0401	.0410	.0420	.0429	.0439
21.6	.0354	.0362	.0371	.0380	.0388	.0397	.0407	.0416	.0426	.0436	.0446
21.8	.0359	.0368	.0376	.0385	.0394	.0403	.0413	.0422	.0432	.0442	.0452
22.0	.0365	.0373	.0382	.0391	.0400	.0409	.0419	.0428	.0438	.0448	.0459
22.2	.0370	.0378	.0387	.0396	.0406	.0415	.0425	.0435	.0445	.0455	.0466
22.4	.0375	.0384	.0393	.0402	.0411	.0421	.0431	.0441	.0451	.0462	.0472
22.6	.0381	.0390	.0399	.0408	.0417	.0427	.0437	.0447	.0458	.0468	.0479
22.8	.0386	.0395	.0404	.0414	.0423	.0433	.0443	.0454	.0464	.0475	.0486
23.0	.0392	.0401	.0410	.0420	.0430	.0440	.0450	.0460	.0471	.0482	.0493
23.2	.0397	.0407	.0416	.0426	.0436	.0446	.0456	.0467	.0478	.0489	.0500
23.4	.0403	.0412	.0422	.0432	.0442	.0452	.0463	.0474	.0485	.0496	.0507
23.6	.0409	.0418	.0428	.0438	.0448	.0459	.0469	.0480	.0492	.0503	.0515
23.8	.0415	.0424	.0434	.0444	.0455	.0465	.0476	.0487	.0499	.0510	.0522
24.0	.0421	.0431	.0441	.0451	.0461	.0472	.0483	.0494	.0506	.0518	.0530
24.2	.0427	.0437	.0447	.0457	.0468	.0479	.0490	.0501	.0513	.0525	.0537
24.4	.0433	.0443	.0453	.0464	.0475	.0486	.0497	.0509	.0520	.0532	.0545
24.6	.0439	.0449	.0460	.0470	.0481	.0493	.0504	.0516	.0528	.0540	.0553
24.8	.0445	.0456	.0466	.0477	.0488	.0500	.0511	.0523	.0535	.0548	.0561
25.0	.0452	.0462	.0473	.0484	.0495	.0507	.0518	.0531	.0543	.0556	.0568
25.2	.0458	.0469	.0480	.0491	.0502	.0514	.0526	.0538	.0551	.0563	.0577
25.4	.0465	.0475	.0486	.0498	.0509	.0521	.0533	.0546	.0558	.0571	.0585
25.6	.0471	.0482	.0493	.0505	.0517	.0529	.0541	.0553	.0566	.0580	.0593
25.8	.0478	.0489	.0500	.0512	.0524	.0536	.0549	.0561	.0574	.0588	.0601
26.0	.0485	.0496	.0507	.0519	.0531	.0544	.0556	.0569	.0583	.0596	.0610
26.2	.0491	.0503	.0515	.0527	.0539	.0551	.0564	.0577	.0591	.0604	.0619
26.4	.0498	.0510	.0522	.0534	.0546	.0559	.0572	.0585	.0599	.0613	.0627
26.6	.0505	.0517	.0529	.0541	.0554	.0567	.0580	.0594	.0608	.0622	.0636
26.8	.0512	.0524	.0537	.0549	.0562	.0575	.0588	.0602	.0616	.0630	.0645
27.0	.0520	.0532	.0544	.0557	.0570	.0583	.0597	.0610	.0625	.0639	.0654
27.2	.0527	.0539	.0552	.0565	.0578	.0591	.0605	.0619	.0633	.0648	.0663
27.4	.0534	.0547	.0559	.0573	.0586	.0599	.0613	.0628	.0642	.0657	.0673
27.6	.0542	.0554	.0567	.0581	.0594	.0608	.0622	.0637	.0651	.0666	.0682
27.8	.0549	.0562	.0575	.0589	.0602	.0616	.0631	.0645	.0660	.0676	.0692
28.0	.0557	.0570	.0583	.0597	.0611	.0625	.0640	.0654	.0670	.0685	.0701

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.90	5.91	5.92	5.93	5.94	5.95	5.96	5.97	5.98	5.99	6.00
28.0	.0557	.0570	.0583	.0597	.0611	.0625	.0640	.0654	.0670	.0685	.0701
28.2	.0565	.0578	.0591	.0605	.0619	.0634	.0648	.0664	.0679	.0695	.0711
28.4	.0573	.0586	.0600	.0614	.0628	.0642	.0657	.0673	.0688	.0704	.0721
28.6	.0581	.0594	.0608	.0622	.0637	.0651	.0667	.0682	.0698	.0714	.0731
28.8	.0589	.0602	.0616	.0631	.0645	.0660	.0676	.0692	.0708	.0724	.0741
29.0	.0597	.0611	.0625	.0639	.0654	.0670	.0685	.0701	.0717	.0734	.0751
29.2	.0605	.0619	.0634	.0648	.0663	.0679	.0695	.0711	.0727	.0744	.0762
29.4	.0613	.0628	.0642	.0657	.0673	.0688	.0704	.0721	.0737	.0755	.0772
29.6	.0622	.0636	.0651	.0666	.0682	.0698	.0714	.0731	.0748	.0765	.0783
29.8	.0631	.0645	.0660	.0676	.0691	.0707	.0724	.0741	.0758	.0776	.0794
30.0	.0639	.0654	.0669	.0685	.0701	.0717	.0734	.0751	.0768	.0786	.0805
30.2	.0648	.0663	.0678	.0694	.0710	.0727	.0744	.0761	.0779	.0797	.0816
30.4	.0657	.0672	.0688	.0704	.0720	.0737	.0754	.0772	.0790	.0808	.0827
30.6	.0666	.0681	.0697	.0713	.0730	.0747	.0764	.0782	.0800	.0819	.0838
30.8	.0675	.0691	.0707	.0723	.0740	.0757	.0775	.0793	.0811	.0830	.0850
31.0	.0684	.0700	.0716	.0733	.0750	.0768	.0786	.0804	.0823	.0842	.0861
31.2	.0694	.0710	.0726	.0743	.0760	.0778	.0796	.0815	.0834	.0853	.0873
31.4	.0703	.0719	.0736	.0753	.0771	.0789	.0807	.0826	.0845	.0865	.0885
31.6	.0713	.0729	.0746	.0764	.0781	.0799	.0818	.0837	.0857	.0877	.0897
31.8	.0722	.0739	.0756	.0774	.0792	.0810	.0829	.0849	.0868	.0888	.0909
32.0	.0732	.0749	.0767	.0784	.0803	.0821	.0840	.0860	.0880	.0901	.0921
32.2	.0742	.0759	.0777	.0795	.0814	.0833	.0852	.0872	.0892	.0913	.0934
32.4	.0752	.0770	.0788	.0806	.0825	.0844	.0863	.0884	.0904	.0925	.0947
32.6	.0762	.0780	.0798	.0817	.0836	.0855	.0875	.0895	.0916	.0938	.0959
32.8	.0773	.0791	.0809	.0828	.0847	.0867	.0887	.0908	.0929	.0950	.0972
33.0	.0783	.0801	.0820	.0839	.0858	.0878	.0899	.0920	.0941	.0963	.0986
33.2	.0794	.0812	.0831	.0850	.0870	.0890	.0911	.0932	.0954	.0976	.0999
33.4	.0804	.0823	.0842	.0862	.0882	.0902	.0923	.0945	.0967	.0989	.1012
33.6	.0815	.0834	.0853	.0873	.0894	.0914	.0936	.0957	.0980	.1003	.1026
33.8	.0826	.0845	.0865	.0885	.0906	.0927	.0948	.0970	.0993	.1016	.1040
34.0	.0837	.0857	.0876	.0897	.0918	.0939	.0961	.0983	.1006	.1030	.1054
34.2	.0848	.0868	.0888	.0909	.0930	.0952	.0974	.0996	.1020	.1043	.1068
34.4	.0860	.0880	.0900	.0921	.0942	.0964	.0987	.1010	.1033	.1057	.1082
34.6	.0871	.0891	.0912	.0933	.0955	.0977	.1000	.1023	.1047	.1071	.1096
34.8	.0883	.0903	.0924	.0946	.0968	.0990	.1013	.1037	.1061	.1086	.1111
35.0	.0894	.0915	.0937	.0958	.0981	.1003	.1027	.1051	.1075	.1100	.1126

TABLE A-1 CONTINUED

TEMP DEG C	PH 5.90	5.91	5.92	5.93	5.94	5.95	5.96	5.97	5.98	5.99	6.00
35.0	.0894	.0915	.0937	.0958	.0981	.1003	.1027	.1051	.1075	.1100	.1126
35.2	.0906	.0927	.0949	.0971	.0994	.1017	.1040	.1065	.1089	.1115	.1141
35.4	.0918	.0940	.0962	.0984	.1007	.1030	.1054	.1079	.1104	.1130	.1156
35.6	.0931	.0952	.0974	.0997	.1020	.1044	.1068	.1093	.1119	.1145	.1171
35.8	.0943	.0965	.0987	.1010	.1034	.1058	.1082	.1108	.1133	.1160	.1187
36.0	.0955	.0978	.1000	.1024	.1047	.1072	.1097	.1122	.1148	.1175	.1202
36.2	.0968	.0991	.1014	.1037	.1061	.1086	.1111	.1137	.1164	.1191	.1218
36.4	.0981	.1004	.1027	.1051	.1075	.1100	.1126	.1152	.1179	.1206	.1234
36.6	.0994	.1017	.1040	.1065	.1089	.1115	.1141	.1167	.1194	.1222	.1251
36.8	.101	.103	.105	.108	.110	.113	.116	.118	.121	.124	.127
37.0	.102	.104	.107	.109	.112	.114	.117	.120	.123	.125	.128
37.2	.103	.106	.108	.111	.113	.116	.119	.121	.124	.127	.130
37.4	.105	.107	.110	.112	.115	.117	.120	.123	.126	.129	.132
37.6	.106	.109	.111	.114	.116	.119	.122	.125	.127	.130	.133
37.8	.107	.110	.113	.115	.118	.121	.123	.126	.129	.132	.135
38.0	.109	.111	.114	.117	.119	.122	.125	.128	.131	.134	.137
38.2	.110	.113	.115	.118	.121	.124	.127	.130	.133	.136	.139
38.4	.112	.114	.117	.120	.122	.125	.128	.131	.134	.137	.141
38.6	.113	.116	.118	.121	.124	.127	.130	.133	.136	.139	.142
38.8	.115	.117	.120	.123	.126	.129	.132	.135	.138	.141	.144
39.0	.116	.119	.122	.124	.127	.130	.133	.136	.140	.143	.146
39.2	.118	.120	.123	.126	.129	.132	.135	.138	.141	.145	.148
39.4	.119	.122	.125	.128	.131	.134	.137	.140	.143	.147	.150
39.6	.121	.123	.126	.129	.132	.135	.139	.142	.145	.148	.152
39.8	.122	.125	.128	.131	.134	.137	.140	.144	.147	.150	.154
40.0	.124	.127	.130	.133	.136	.139	.142	.145	.149	.152	.156

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.00	6.01	6.02	6.03	6.04	6.05	6.06	6.07	6.08	6.09	6.10
.0	.00827	.00846	.00866	.00886	.00907	.00928	.00949	.00971	.00994	.01017	.01041
.2	.00841	.00860	.00880	.00901	.00922	.00943	.00965	.00988	.01011	.01034	.01058
.4	.00855	.00875	.00895	.00916	.00938	.00959	.00982	.01005	.01028	.01052	.01076
.6	.00870	.00890	.00910	.00932	.00953	.00976	.00998	.01022	.01045	.01070	.01095
.8	.00884	.00905	.00926	.00947	.00970	.00992	.01015	.01039	.01063	.01088	.01113
1.0	.00899	.00920	.00941	.00963	.00986	.01009	.01032	.01056	.01081	.01106	.01132
1.2	.00914	.00936	.00957	.00980	.01002	.01026	.01050	.01074	.01099	.01125	.01151
1.4	.00930	.00951	.00973	.00996	.01019	.01043	.01067	.01092	.01118	.01144	.01170
1.6	.00945	.00967	.00990	.01013	.01036	.01061	.01085	.01111	.01136	.01163	.01190
1.8	.00961	.00983	.01006	.01030	.01054	.01078	.01103	.01129	.01155	.01182	.01210
2.0	.00977	.01000	.01023	.01047	.01071	.01096	.01122	.01148	.01175	.01202	.01230
2.2	.00994	.01017	.01040	.01065	.01089	.01115	.01141	.01167	.01194	.01222	.01251
2.4	.0101	.0103	.0106	.0108	.0111	.0113	.0116	.0119	.0121	.0124	.0127
2.6	.0103	.0105	.0108	.0110	.0113	.0115	.0118	.0121	.0123	.0126	.0129
2.8	.0104	.0107	.0109	.0112	.0114	.0117	.0120	.0123	.0126	.0128	.0131
3.0	.0106	.0109	.0111	.0114	.0116	.0119	.0122	.0125	.0128	.0131	.0134
3.2	.0108	.0110	.0113	.0116	.0118	.0121	.0124	.0127	.0130	.0133	.0136
3.4	.0110	.0112	.0115	.0118	.0120	.0123	.0126	.0129	.0132	.0135	.0138
3.6	.0112	.0114	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140
3.8	.0113	.0116	.0119	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0143
4.0	.0115	.0118	.0121	.0123	.0126	.0129	.0132	.0135	.0139	.0142	.0145
4.2	.0117	.0120	.0123	.0125	.0128	.0131	.0134	.0138	.0141	.0144	.0147
4.4	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140	.0143	.0146	.0150
4.6	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0145	.0149	.0152
4.8	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0144	.0148	.0151	.0155
5.0	.0125	.0128	.0131	.0134	.0137	.0140	.0144	.0147	.0150	.0154	.0157
5.2	.0127	.0130	.0133	.0136	.0139	.0143	.0146	.0149	.0153	.0156	.0160
5.4	.0129	.0132	.0135	.0138	.0142	.0145	.0148	.0152	.0155	.0159	.0163
5.6	.0131	.0134	.0137	.0141	.0144	.0147	.0151	.0154	.0158	.0161	.0165
5.8	.0133	.0136	.0140	.0143	.0146	.0150	.0153	.0157	.0160	.0164	.0168
6.0	.0136	.0139	.0142	.0145	.0149	.0152	.0156	.0159	.0163	.0167	.0171
6.2	.0138	.0141	.0144	.0148	.0151	.0155	.0158	.0162	.0166	.0169	.0173
6.4	.0140	.0143	.0147	.0150	.0153	.0157	.0161	.0164	.0168	.0172	.0176
6.6	.0142	.0146	.0149	.0152	.0156	.0160	.0163	.0167	.0171	.0175	.0179
6.8	.0145	.0148	.0151	.0155	.0158	.0162	.0166	.0170	.0174	.0178	.0182
7.0	.0147	.0150	.0154	.0157	.0161	.0165	.0169	.0173	.0177	.0181	.0185

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.00	6.01	6.02	6.03	6.04	6.05	6.06	6.07	6.08	6.09	6.10
7.0	.0147	.0150	.0154	.0157	.0161	.0165	.0169	.0173	.0177	.0181	.0185
7.2	.0149	.0153	.0156	.0160	.0164	.0167	.0171	.0175	.0179	.0184	.0188
7.4	.0152	.0155	.0159	.0162	.0166	.0170	.0174	.0178	.0182	.0187	.0191
7.6	.0154	.0158	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0190	.0194
7.8	.0157	.0160	.0164	.0168	.0172	.0176	.0180	.0184	.0188	.0193	.0197
8.0	.0159	.0163	.0167	.0170	.0174	.0178	.0183	.0187	.0191	.0196	.0200
8.2	.0162	.0165	.0169	.0173	.0177	.0181	.0186	.0190	.0194	.0199	.0203
8.4	.0164	.0168	.0172	.0176	.0180	.0184	.0189	.0193	.0197	.0202	.0207
8.6	.0167	.0171	.0175	.0179	.0183	.0187	.0192	.0196	.0201	.0205	.0210
8.8	.0169	.0173	.0177	.0182	.0186	.0190	.0195	.0199	.0204	.0208	.0213
9.0	.0172	.0176	.0180	.0184	.0189	.0193	.0198	.0202	.0207	.0212	.0217
9.2	.0175	.0179	.0183	.0187	.0192	.0196	.0201	.0205	.0210	.0215	.0220
9.4	.0178	.0182	.0186	.0190	.0195	.0199	.0204	.0209	.0214	.0219	.0224
9.6	.0180	.0185	.0189	.0193	.0198	.0203	.0207	.0212	.0217	.0222	.0227
9.8	.0183	.0188	.0192	.0196	.0201	.0206	.0211	.0215	.0220	.0226	.0231
10.0	.0186	.0191	.0195	.0200	.0204	.0209	.0214	.0219	.0224	.0229	.0234
10.2	.0189	.0194	.0198	.0203	.0207	.0212	.0217	.0222	.0227	.0233	.0238
10.4	.0192	.0197	.0201	.0206	.0211	.0216	.0221	.0226	.0231	.0236	.0242
10.6	.0195	.0200	.0204	.0209	.0214	.0219	.0224	.0229	.0235	.0240	.0246
10.8	.0198	.0203	.0208	.0212	.0217	.0222	.0228	.0233	.0238	.0244	.0250
11.0	.0201	.0206	.0211	.0216	.0221	.0226	.0231	.0237	.0242	.0248	.0254
11.2	.0205	.0209	.0214	.0219	.0224	.0229	.0235	.0240	.0246	.0252	.0257
11.4	.0208	.0213	.0218	.0223	.0228	.0233	.0238	.0244	.0250	.0256	.0262
11.6	.0211	.0216	.0221	.0226	.0231	.0237	.0242	.0248	.0254	.0260	.0266
11.8	.0214	.0219	.0224	.0230	.0235	.0240	.0246	.0252	.0258	.0264	.0270
12.0	.0218	.0223	.0228	.0233	.0239	.0244	.0250	.0256	.0262	.0268	.0274
12.2	.0221	.0226	.0231	.0237	.0242	.0248	.0254	.0260	.0266	.0272	.0278
12.4	.0224	.0230	.0235	.0240	.0246	.0252	.0258	.0264	.0270	.0276	.0283
12.6	.0228	.0233	.0239	.0244	.0250	.0256	.0262	.0268	.0274	.0280	.0287
12.8	.0231	.0237	.0242	.0248	.0254	.0260	.0266	.0272	.0278	.0285	.0291
13.0	.0235	.0240	.0246	.0252	.0258	.0264	.0270	.0276	.0283	.0289	.0296
13.2	.0239	.0244	.0250	.0256	.0262	.0268	.0274	.0280	.0287	.0294	.0300
13.4	.0242	.0248	.0254	.0260	.0266	.0272	.0278	.0285	.0291	.0298	.0305
13.6	.0246	.0252	.0258	.0264	.0270	.0276	.0283	.0289	.0296	.0303	.0310
13.8	.0250	.0256	.0262	.0268	.0274	.0280	.0287	.0294	.0300	.0307	.0315
14.0	.0254	.0260	.0266	.0272	.0278	.0285	.0291	.0298	.0305	.0312	.0319

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.00	6.01	6.02	6.03	6.04	6.05	6.06	6.07	6.08	6.09	6.10
14.0	.0254	.0260	.0266	.0272	.0278	.0285	.0291	.0298	.0305	.0312	.0319
14.2	.0258	.0264	.0270	.0276	.0282	.0289	.0296	.0303	.0310	.0317	.0324
14.4	.0262	.0268	.0274	.0280	.0287	.0293	.0300	.0307	.0314	.0322	.0329
14.6	.0266	.0272	.0278	.0285	.0291	.0298	.0305	.0312	.0319	.0327	.0334
14.8	.0270	.0276	.0282	.0289	.0296	.0302	.0310	.0317	.0324	.0332	.0339
15.0	.0274	.0280	.0287	.0293	.0300	.0307	.0314	.0322	.0329	.0337	.0345
15.2	.0278	.0284	.0291	.0298	.0305	.0312	.0319	.0326	.0334	.0342	.0350
15.4	.0282	.0289	.0295	.0302	.0309	.0316	.0324	.0331	.0339	.0347	.0355
15.6	.0286	.0293	.0300	.0307	.0314	.0321	.0329	.0336	.0344	.0352	.0360
15.8	.0291	.0297	.0304	.0312	.0319	.0326	.0334	.0342	.0349	.0358	.0366
16.0	.0295	.0302	.0309	.0316	.0324	.0331	.0339	.0347	.0355	.0363	.0372
16.2	.0300	.0307	.0314	.0321	.0328	.0336	.0344	.0352	.0360	.0369	.0377
16.4	.0304	.0311	.0318	.0326	.0333	.0341	.0349	.0357	.0366	.0374	.0383
16.6	.0309	.0316	.0323	.0331	.0338	.0346	.0354	.0363	.0371	.0380	.0389
16.8	.0313	.0321	.0328	.0336	.0344	.0352	.0360	.0368	.0377	.0385	.0394
17.0	.0318	.0325	.0333	.0341	.0349	.0357	.0365	.0374	.0382	.0391	.0400
17.2	.0323	.0330	.0338	.0346	.0354	.0362	.0371	.0379	.0388	.0397	.0406
17.4	.0328	.0335	.0343	.0351	.0359	.0368	.0376	.0385	.0394	.0403	.0412
17.6	.0333	.0340	.0348	.0356	.0365	.0373	.0382	.0391	.0400	.0409	.0419
17.8	.0338	.0345	.0353	.0362	.0370	.0379	.0388	.0397	.0406	.0415	.0425
18.0	.0343	.0351	.0359	.0367	.0376	.0384	.0393	.0403	.0412	.0421	.0431
18.2	.0348	.0356	.0364	.0373	.0381	.0390	.0399	.0409	.0418	.0428	.0438
18.4	.0353	.0361	.0370	.0378	.0387	.0396	.0405	.0415	.0424	.0434	.0444
18.6	.0358	.0366	.0375	.0384	.0393	.0402	.0411	.0421	.0431	.0441	.0451
18.8	.0363	.0372	.0381	.0389	.0399	.0408	.0417	.0427	.0437	.0447	.0458
19.0	.0369	.0377	.0386	.0395	.0404	.0414	.0423	.0433	.0443	.0454	.0464
19.2	.0374	.0383	.0392	.0401	.0410	.0420	.0430	.0440	.0450	.0460	.0471
19.4	.0380	.0389	.0398	.0407	.0416	.0426	.0436	.0446	.0457	.0467	.0478
19.6	.0385	.0394	.0404	.0413	.0423	.0432	.0443	.0453	.0463	.0474	.0485
19.8	.0391	.0400	.0410	.0419	.0429	.0439	.0449	.0460	.0470	.0481	.0492
20.0	.0397	.0406	.0416	.0425	.0435	.0445	.0456	.0466	.0477	.0488	.0500
20.2	.0403	.0412	.0422	.0432	.0442	.0452	.0462	.0473	.0484	.0495	.0507
20.4	.0409	.0418	.0428	.0438	.0448	.0459	.0469	.0480	.0491	.0503	.0514
20.6	.0415	.0424	.0434	.0444	.0455	.0465	.0476	.0487	.0499	.0510	.0522
20.8	.0421	.0431	.0441	.0451	.0461	.0472	.0483	.0494	.0506	.0518	.0530
21.0	.0427	.0437	.0447	.0457	.0468	.0479	.0490	.0502	.0513	.0525	.0537

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.00	6.01	6.02	6.03	6.04	6.05	6.06	6.07	6.08	6.09	6.10
21.0	.0427	.0437	.0447	.0457	.0468	.0479	.0490	.0502	.0513	.0525	.0537
21.2	.0433	.0443	.0454	.0464	.0475	.0486	.0497	.0509	.0521	.0533	.0545
21.4	.0439	.0450	.0460	.0471	.0482	.0493	.0505	.0516	.0528	.0541	.0553
21.6	.0446	.0456	.0467	.0478	.0489	.0500	.0512	.0524	.0536	.0548	.0561
21.8	.0452	.0463	.0474	.0485	.0496	.0508	.0519	.0531	.0544	.0556	.0569
22.0	.0459	.0470	.0481	.0492	.0503	.0515	.0527	.0539	.0552	.0565	.0578
22.2	.0466	.0476	.0488	.0499	.0510	.0522	.0535	.0547	.0560	.0573	.0586
22.4	.0472	.0483	.0495	.0506	.0518	.0530	.0542	.0555	.0568	.0581	.0595
22.6	.0479	.0490	.0502	.0513	.0525	.0538	.0550	.0563	.0576	.0589	.0603
22.8	.0486	.0497	.0509	.0521	.0533	.0545	.0558	.0571	.0584	.0598	.0612
23.0	.0493	.0505	.0516	.0528	.0541	.0553	.0566	.0579	.0593	.0607	.0621
23.2	.0500	.0512	.0524	.0536	.0548	.0561	.0574	.0588	.0601	.0615	.0630
23.4	.0507	.0519	.0531	.0544	.0556	.0569	.0583	.0596	.0610	.0624	.0639
23.6	.0515	.0527	.0539	.0552	.0564	.0577	.0591	.0605	.0619	.0633	.0648
23.8	.0522	.0534	.0547	.0559	.0572	.0586	.0599	.0613	.0628	.0642	.0657
24.0	.0530	.0542	.0555	.0567	.0581	.0594	.0608	.0622	.0637	.0651	.0667
24.2	.0537	.0550	.0562	.0576	.0589	.0603	.0617	.0631	.0646	.0661	.0676
24.4	.0545	.0558	.0571	.0584	.0597	.0611	.0626	.0640	.0655	.0670	.0686
24.6	.0553	.0565	.0579	.0592	.0606	.0620	.0634	.0649	.0664	.0680	.0696
24.8	.0561	.0574	.0587	.0601	.0615	.0629	.0643	.0658	.0674	.0689	.0706
25.0	.0568	.0582	.0595	.0609	.0623	.0638	.0653	.0668	.0683	.0699	.0716
25.2	.0577	.0590	.0604	.0618	.0632	.0647	.0662	.0677	.0693	.0709	.0726
25.4	.0585	.0598	.0612	.0627	.0641	.0656	.0671	.0687	.0703	.0719	.0736
25.6	.0593	.0607	.0621	.0635	.0650	.0665	.0681	.0697	.0713	.0730	.0746
25.8	.0601	.0615	.0630	.0644	.0659	.0675	.0690	.0707	.0723	.0740	.0757
26.0	.0610	.0624	.0639	.0654	.0669	.0684	.0700	.0717	.0733	.0750	.0768
26.2	.0619	.0633	.0648	.0663	.0678	.0694	.0710	.0727	.0744	.0761	.0779
26.4	.0627	.0642	.0657	.0672	.0688	.0704	.0720	.0737	.0754	.0772	.0790
26.6	.0636	.0651	.0666	.0682	.0697	.0714	.0730	.0747	.0765	.0782	.0801
26.8	.0645	.0660	.0675	.0691	.0707	.0724	.0741	.0758	.0775	.0793	.0812
27.0	.0654	.0669	.0685	.0701	.0717	.0734	.0751	.0768	.0786	.0805	.0823
27.2	.0663	.0679	.0695	.0711	.0727	.0744	.0761	.0779	.0797	.0816	.0835
27.4	.0673	.0688	.0704	.0721	.0737	.0755	.0772	.0790	.0809	.0827	.0847
27.6	.0682	.0698	.0714	.0731	.0748	.0765	.0783	.0801	.0820	.0839	.0858
27.8	.0692	.0708	.0724	.0741	.0758	.0776	.0794	.0812	.0831	.0851	.0870
28.0	.0701	.0717	.0734	.0751	.0769	.0787	.0805	.0824	.0843	.0862	.0883

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.00	6.01	6.02	6.03	6.04	6.05	6.06	6.07	6.08	6.09	6.10
28.0	.0701	.0717	.0734	.0751	.0769	.0787	.0805	.0824	.0843	.0862	.0883
28.2	.0711	.0727	.0744	.0762	.0779	.0798	.0816	.0835	.0855	.0875	.0895
28.4	.0721	.0738	.0755	.0772	.0790	.0809	.0828	.0847	.0867	.0887	.0907
28.6	.0731	.0748	.0765	.0783	.0801	.0820	.0839	.0859	.0879	.0899	.0920
28.8	.0741	.0758	.0776	.0794	.0812	.0831	.0851	.0870	.0891	.0911	.0933
29.0	.0751	.0769	.0787	.0805	.0824	.0843	.0862	.0883	.0903	.0924	.0946
29.2	.0762	.0779	.0798	.0816	.0835	.0855	.0874	.0895	.0916	.0937	.0959
29.4	.0772	.0790	.0809	.0827	.0847	.0866	.0886	.0907	.0928	.0950	.0972
29.6	.0783	.0801	.0820	.0839	.0858	.0878	.0899	.0920	.0941	.0963	.0985
29.8	.0794	.0812	.0831	.0850	.0870	.0890	.0911	.0932	.0954	.0976	.0999
30.0	.0805	.0823	.0842	.0862	.0882	.0903	.0924	.0945	.0967	.0990	.1013
30.2	.0816	.0835	.0854	.0874	.0894	.0915	.0936	.0958	.0980	.1003	.1027
30.4	.0827	.0846	.0866	.0886	.0907	.0928	.0949	.0971	.0994	.1017	.1041
30.6	.0838	.0858	.0878	.0898	.0919	.0940	.0962	.0985	.1007	.1031	.1055
30.8	.0850	.0869	.0890	.0910	.0932	.0953	.0975	.0998	.1021	.1045	.1069
31.0	.0861	.0881	.0902	.0923	.0944	.0966	.0989	.1012	.1035	.1059	.1084
31.2	.0873	.0893	.0914	.0935	.0957	.0979	.1002	.1026	.1049	.1074	.1099
31.4	.0885	.0905	.0927	.0948	.0970	.0993	.1016	.1040	.1064	.1088	.1114
31.6	.0897	.0918	.0939	.0961	.0983	.1006	.1030	.1054	.1078	.1103	.1129
31.8	.0909	.0930	.0952	.0974	.0997	.1020	.1044	.1068	.1093	.1118	.1144
32.0	.0921	.0943	.0965	.0987	.1010	.1034	.1058	.1082	.1108	.1133	.1160
32.2	.0934	.0956	.0978	.1001	.1024	.1048	.1072	.1097	.1123	.1149	.1176
32.4	.0947	.0969	.0991	.1014	.1038	.1062	.1087	.1112	.1138	.1164	.1191
32.6	.0959	.0982	.1005	.1028	.1052	.1076	.1101	.1127	.1153	.1180	.1208
32.8	.0972	.0995	.1018	.1042	.1066	.1091	.1116	.1142	.1169	.1196	.1224
33.0	.0986	.1008	.1032	.1056	.1081	.1106	.1131	.1158	.1185	.1212	.1240
33.2	.0999	.1022	.1046	.1070	.1095	.1121	.1147	.1173	.1201	.1229	.1257
33.4	.101	.104	.106	.108	.111	.114	.116	.119	.122	.125	.127
33.6	.103	.105	.107	.110	.112	.115	.118	.121	.123	.126	.129
33.8	.104	.106	.109	.111	.114	.117	.119	.122	.125	.128	.131
34.0	.105	.108	.110	.113	.116	.118	.121	.124	.127	.130	.133
34.2	.107	.109	.112	.114	.117	.120	.123	.125	.128	.131	.134
34.4	.108	.111	.113	.116	.119	.121	.124	.127	.130	.133	.136
34.6	.110	.112	.115	.117	.120	.123	.126	.129	.132	.135	.138
34.8	.111	.114	.116	.119	.122	.125	.128	.131	.134	.137	.140
35.0	.113	.115	.118	.121	.123	.126	.129	.132	.135	.138	.142

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.00	6.01	6.02	6.03	6.04	6.05	6.06	6.07	6.08	6.09	6.10
35.0	.113	.115	.118	.121	.123	.126	.129	.132	.135	.138	.142
35.2	.114	.117	.119	.122	.125	.128	.131	.134	.137	.140	.144
35.4	.116	.118	.121	.124	.127	.130	.133	.136	.139	.142	.145
35.6	.117	.120	.123	.125	.128	.131	.134	.138	.141	.144	.147
35.8	.119	.121	.124	.127	.130	.133	.136	.139	.143	.146	.149
36.0	.120	.123	.126	.129	.132	.135	.138	.141	.145	.148	.151
36.2	.122	.125	.128	.131	.134	.137	.140	.143	.146	.150	.153
36.4	.123	.126	.129	.132	.135	.138	.142	.145	.148	.152	.155
36.6	.125	.128	.131	.134	.137	.140	.144	.147	.150	.154	.157
36.8	.127	.130	.133	.136	.139	.142	.145	.149	.152	.156	.159
37.0	.128	.131	.134	.138	.141	.144	.147	.151	.154	.158	.162
37.2	.130	.133	.136	.139	.143	.146	.149	.153	.156	.160	.164
37.4	.132	.135	.138	.141	.144	.148	.151	.155	.158	.162	.166
37.6	.133	.137	.140	.143	.146	.150	.153	.157	.160	.164	.168
37.8	.135	.138	.142	.145	.148	.152	.155	.159	.163	.166	.170
38.0	.137	.140	.143	.147	.150	.154	.157	.161	.165	.168	.172
38.2	.139	.142	.145	.149	.152	.156	.159	.163	.167	.171	.175
38.4	.141	.144	.147	.151	.154	.158	.161	.165	.169	.173	.177
38.6	.142	.146	.149	.153	.156	.160	.163	.167	.171	.175	.179
38.8	.144	.148	.151	.155	.158	.162	.166	.169	.173	.177	.182
39.0	.146	.150	.153	.157	.160	.164	.168	.172	.176	.180	.184
39.2	.148	.151	.155	.159	.162	.166	.170	.174	.178	.182	.186
39.4	.150	.153	.157	.161	.164	.168	.172	.176	.180	.184	.189
39.6	.152	.155	.159	.163	.167	.170	.174	.178	.183	.187	.191
39.8	.154	.157	.161	.165	.169	.173	.177	.181	.185	.189	.194
40.0	.156	.159	.163	.167	.171	.175	.179	.183	.187	.192	.196

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.10	6.11	6.12	6.13	6.14	6.15	6.16	6.17	6.18	6.19	6.20
.0	.0104	.0107	.0109	.0112	.0114	.0117	.0120	.0122	.0125	.0128	.0131
.2	.0106	.0108	.0111	.0113	.0116	.0119	.0122	.0124	.0127	.0130	.0133
.4	.0108	.0110	.0113	.0115	.0118	.0121	.0124	.0126	.0129	.0132	.0136
.6	.0109	.0112	.0115	.0117	.0120	.0123	.0126	.0129	.0132	.0135	.0138
.8	.0111	.0114	.0117	.0119	.0122	.0125	.0128	.0131	.0134	.0137	.0140
1.0	.0113	.0116	.0119	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142
1.2	.0115	.0118	.0121	.0123	.0126	.0129	.0132	.0135	.0138	.0142	.0145
1.4	.0117	.0120	.0123	.0125	.0128	.0131	.0134	.0137	.0141	.0144	.0147
1.6	.0119	.0122	.0125	.0128	.0130	.0134	.0137	.0140	.0143	.0146	.0150
1.8	.0121	.0124	.0127	.0130	.0133	.0136	.0139	.0142	.0145	.0149	.0152
2.0	.0123	.0126	.0129	.0132	.0135	.0138	.0141	.0145	.0148	.0151	.0155
2.2	.0125	.0128	.0131	.0134	.0137	.0140	.0144	.0147	.0150	.0154	.0157
2.4	.0127	.0130	.0133	.0136	.0139	.0143	.0146	.0149	.0153	.0156	.0160
2.6	.0129	.0132	.0135	.0139	.0142	.0145	.0148	.0152	.0155	.0159	.0163
2.8	.0131	.0134	.0138	.0141	.0144	.0147	.0151	.0154	.0158	.0162	.0165
3.0	.0134	.0137	.0140	.0143	.0147	.0150	.0153	.0157	.0161	.0164	.0168
3.2	.0136	.0139	.0142	.0146	.0149	.0152	.0156	.0160	.0163	.0167	.0171
3.4	.0138	.0141	.0145	.0148	.0151	.0155	.0159	.0162	.0166	.0170	.0174
3.6	.0140	.0144	.0147	.0150	.0154	.0158	.0161	.0165	.0169	.0173	.0177
3.8	.0143	.0146	.0149	.0153	.0156	.0160	.0164	.0168	.0172	.0176	.0180
4.0	.0145	.0148	.0152	.0155	.0159	.0163	.0167	.0170	.0174	.0178	.0183
4.2	.0147	.0151	.0154	.0158	.0162	.0165	.0169	.0173	.0177	.0181	.0186
4.4	.0150	.0153	.0157	.0161	.0164	.0168	.0172	.0176	.0180	.0184	.0189
4.6	.0152	.0156	.0160	.0163	.0167	.0171	.0175	.0179	.0183	.0187	.0192
4.8	.0155	.0158	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0190	.0195
5.0	.0157	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0189	.0194	.0198
5.2	.0160	.0164	.0167	.0171	.0175	.0179	.0184	.0188	.0192	.0197	.0201
5.4	.0163	.0166	.0170	.0174	.0178	.0182	.0187	.0191	.0195	.0200	.0205
5.6	.0165	.0169	.0173	.0177	.0181	.0185	.0190	.0194	.0199	.0203	.0208
5.8	.0168	.0172	.0176	.0180	.0184	.0188	.0193	.0197	.0202	.0207	.0211
6.0	.0171	.0175	.0179	.0183	.0187	.0191	.0196	.0200	.0205	.0210	.0215
6.2	.0173	.0177	.0182	.0186	.0190	.0195	.0199	.0204	.0208	.0213	.0218
6.4	.0176	.0180	.0185	.0189	.0193	.0198	.0202	.0207	.0212	.0217	.0222
6.6	.0179	.0183	.0187	.0192	.0196	.0201	.0206	.0210	.0215	.0220	.0225
6.8	.0182	.0186	.0191	.0195	.0200	.0204	.0209	.0214	.0219	.0224	.0229
7.0	.0185	.0189	.0194	.0198	.0203	.0207	.0212	.0217	.0222	.0227	.0233

TEMP DEG C	PH 6.10	6.11	6.12	6.13	6.14	6.15	6.16	6.17	6.18	6.19	6.20
7.0	.0185	.0189	.0194	.0198	.0203	.0207	.0212	.0217	.0222	.0227	.0233
7.2	.0188	.0192	.0197	.0201	.0206	.0211	.0216	.0221	.0226	.0231	.0237
7.4	.0191	.0195	.0200	.0205	.0209	.0214	.0219	.0224	.0230	.0235	.0240
7.6	.0194	.0198	.0203	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244
7.8	.0197	.0202	.0206	.0211	.0216	.0221	.0226	.0232	.0237	.0242	.0248
8.0	.0200	.0205	.0210	.0215	.0220	.0225	.0230	.0235	.0241	.0246	.0252
8.2	.0203	.0208	.0213	.0218	.0223	.0228	.0234	.0239	.0245	.0250	.0256
8.4	.0207	.0212	.0216	.0221	.0227	.0232	.0237	.0243	.0248	.0254	.0260
8.6	.0210	.0215	.0220	.0225	.0230	.0236	.0241	.0247	.0252	.0258	.0264
8.8	.0213	.0218	.0223	.0229	.0234	.0239	.0245	.0251	.0256	.0262	.0269
9.0	.0217	.0222	.0227	.0232	.0238	.0243	.0249	.0255	.0261	.0267	.0273
9.2	.0220	.0225	.0231	.0236	.0241	.0247	.0253	.0259	.0265	.0271	.0277
9.4	.0224	.0229	.0234	.0240	.0245	.0251	.0257	.0263	.0269	.0275	.0282
9.6	.0227	.0233	.0238	.0243	.0249	.0255	.0261	.0267	.0273	.0280	.0286
9.8	.0231	.0236	.0242	.0247	.0253	.0259	.0265	.0271	.0277	.0284	.0291
10.0	.0234	.0240	.0246	.0251	.0257	.0263	.0269	.0275	.0282	.0288	.0295
10.2	.0238	.0244	.0249	.0255	.0261	.0267	.0273	.0280	.0286	.0293	.0300
10.4	.0242	.0248	.0253	.0259	.0265	.0271	.0278	.0284	.0291	.0298	.0305
10.6	.0246	.0251	.0257	.0263	.0269	.0276	.0282	.0289	.0295	.0302	.0309
10.8	.0250	.0255	.0261	.0267	.0274	.0280	.0287	.0293	.0300	.0307	.0314
11.0	.0254	.0259	.0265	.0272	.0278	.0284	.0291	.0298	.0305	.0312	.0319
11.2	.0257	.0263	.0270	.0276	.0282	.0289	.0296	.0302	.0310	.0317	.0324
11.4	.0262	.0268	.0274	.0280	.0287	.0293	.0300	.0307	.0314	.0322	.0329
11.6	.0266	.0272	.0278	.0285	.0291	.0298	.0305	.0312	.0319	.0327	.0334
11.8	.0270	.0276	.0282	.0289	.0296	.0303	.0310	.0317	.0324	.0332	.0340
12.0	.0274	.0280	.0287	.0294	.0300	.0307	.0315	.0322	.0329	.0337	.0345
12.2	.0278	.0285	.0291	.0298	.0305	.0312	.0319	.0327	.0334	.0342	.0350
12.4	.0283	.0289	.0296	.0303	.0310	.0317	.0324	.0332	.0340	.0348	.0356
12.6	.0287	.0294	.0300	.0307	.0315	.0322	.0329	.0337	.0345	.0353	.0361
12.8	.0291	.0298	.0305	.0312	.0319	.0327	.0334	.0342	.0350	.0358	.0367
13.0	.0296	.0303	.0310	.0317	.0324	.0332	.0340	.0348	.0356	.0364	.0372
13.2	.0300	.0307	.0315	.0322	.0329	.0337	.0345	.0353	.0361	.0370	.0378
13.4	.0305	.0312	.0319	.0327	.0334	.0342	.0350	.0358	.0367	.0375	.0384
13.6	.0310	.0317	.0324	.0332	.0340	.0348	.0356	.0364	.0372	.0381	.0390
13.8	.0315	.0322	.0329	.0337	.0345	.0353	.0361	.0370	.0378	.0387	.0396
14.0	.0319	.0327	.0334	.0342	.0350	.0358	.0367	.0375	.0384	.0393	.0402

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.10	6.11	6.12	6.13	6.14	6.15	6.16	6.17	6.18	6.19	6.20
14.0	.0319	.0327	.0334	.0342	.0350	.0358	.0367	.0375	.0384	.0393	.0402
14.2	.0324	.0332	.0340	.0347	.0356	.0364	.0372	.0381	.0390	.0399	.0408
14.4	.0329	.0337	.0345	.0353	.0361	.0369	.0378	.0387	.0396	.0405	.0414
14.6	.0334	.0342	.0350	.0358	.0366	.0375	.0384	.0393	.0402	.0411	.0421
14.8	.0339	.0347	.0355	.0364	.0372	.0381	.0390	.0399	.0408	.0417	.0427
15.0	.0345	.0353	.0361	.0369	.0378	.0387	.0396	.0405	.0414	.0424	.0434
15.2	.0350	.0358	.0366	.0375	.0384	.0392	.0402	.0411	.0421	.0430	.0440
15.4	.0355	.0363	.0372	.0380	.0389	.0398	.0408	.0417	.0427	.0437	.0447
15.6	.0360	.0369	.0377	.0386	.0395	.0404	.0414	.0424	.0433	.0443	.0454
15.8	.0366	.0374	.0383	.0392	.0401	.0411	.0420	.0430	.0440	.0450	.0461
16.0	.0372	.0380	.0389	.0398	.0407	.0417	.0427	.0436	.0447	.0457	.0468
16.2	.0377	.0386	.0395	.0404	.0413	.0423	.0433	.0443	.0453	.0464	.0475
16.4	.0383	.0392	.0401	.0410	.0420	.0430	.0440	.0450	.0460	.0471	.0482
16.6	.0389	.0398	.0407	.0416	.0426	.0436	.0446	.0457	.0467	.0478	.0489
16.8	.0394	.0404	.0413	.0423	.0432	.0443	.0453	.0463	.0474	.0485	.0497
17.0	.0400	.0410	.0419	.0429	.0439	.0449	.0460	.0470	.0481	.0493	.0504
17.2	.0406	.0416	.0426	.0435	.0446	.0456	.0467	.0477	.0489	.0500	.0512
17.4	.0412	.0422	.0432	.0442	.0452	.0463	.0474	.0485	.0496	.0507	.0519
17.6	.0419	.0428	.0438	.0449	.0459	.0470	.0481	.0492	.0503	.0515	.0527
17.8	.0425	.0435	.0445	.0455	.0466	.0477	.0488	.0499	.0511	.0523	.0535
18.0	.0431	.0441	.0452	.0462	.0473	.0484	.0495	.0507	.0518	.0531	.0543
18.2	.0438	.0448	.0458	.0469	.0480	.0491	.0503	.0514	.0526	.0538	.0551
18.4	.0444	.0455	.0465	.0476	.0487	.0498	.0510	.0522	.0534	.0546	.0559
18.6	.0451	.0461	.0472	.0483	.0494	.0506	.0518	.0530	.0542	.0555	.0568
18.8	.0458	.0468	.0479	.0490	.0502	.0513	.0525	.0538	.0550	.0563	.0576
19.0	.0464	.0475	.0486	.0498	.0509	.0521	.0533	.0545	.0558	.0571	.0584
19.2	.0471	.0482	.0493	.0505	.0517	.0529	.0541	.0554	.0566	.0580	.0593
19.4	.0478	.0489	.0501	.0512	.0524	.0536	.0549	.0562	.0575	.0588	.0602
19.6	.0485	.0497	.0508	.0520	.0532	.0544	.0557	.0570	.0583	.0597	.0611
19.8	.0492	.0504	.0516	.0528	.0540	.0552	.0565	.0578	.0592	.0606	.0620
20.0	.0500	.0511	.0523	.0535	.0548	.0561	.0574	.0587	.0601	.0615	.0629
20.2	.0507	.0519	.0531	.0543	.0556	.0569	.0582	.0596	.0609	.0624	.0638
20.4	.0514	.0526	.0539	.0551	.0564	.0577	.0591	.0604	.0618	.0633	.0648
20.6	.0522	.0534	.0547	.0559	.0572	.0586	.0599	.0613	.0628	.0642	.0657
20.8	.0530	.0542	.0555	.0567	.0581	.0594	.0608	.0622	.0637	.0652	.0667
21.0	.0537	.0550	.0563	.0576	.0589	.0603	.0617	.0631	.0646	.0661	.0676

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.10	6.11	6.12	6.13	6.14	6.15	6.16	6.17	6.18	6.19	6.20
21.0	.0537	.0550	.0563	.0576	.0589	.0603	.0617	.0631	.0646	.0661	.0676
21.2	.0545	.0558	.0571	.0584	.0598	.0612	.0626	.0641	.0655	.0671	.0686
21.4	.0553	.0566	.0579	.0593	.0607	.0621	.0635	.0650	.0665	.0680	.0696
21.6	.0561	.0574	.0588	.0601	.0615	.0630	.0644	.0659	.0675	.0690	.0706
21.8	.0569	.0583	.0596	.0610	.0624	.0639	.0654	.0669	.0685	.0700	.0717
22.0	.0578	.0591	.0605	.0619	.0633	.0648	.0663	.0679	.0694	.0711	.0727
22.2	.0586	.0600	.0614	.0628	.0643	.0658	.0673	.0689	.0705	.0721	.0738
22.4	.0595	.0608	.0623	.0637	.0652	.0667	.0683	.0698	.0715	.0731	.0748
22.6	.0603	.0617	.0632	.0646	.0661	.0677	.0692	.0709	.0725	.0742	.0759
22.8	.0612	.0626	.0641	.0656	.0671	.0686	.0702	.0719	.0736	.0753	.0770
23.0	.0621	.0635	.0650	.0665	.0681	.0696	.0713	.0729	.0746	.0764	.0781
23.2	.0630	.0644	.0659	.0675	.0690	.0706	.0723	.0740	.0757	.0775	.0793
23.4	.0639	.0654	.0669	.0684	.0700	.0717	.0733	.0750	.0768	.0786	.0804
23.6	.0648	.0663	.0678	.0694	.0710	.0727	.0744	.0761	.0779	.0797	.0816
23.8	.0657	.0672	.0688	.0704	.0721	.0737	.0754	.0772	.0790	.0808	.0827
24.0	.0667	.0682	.0698	.0714	.0731	.0748	.0765	.0783	.0801	.0820	.0839
24.2	.0676	.0692	.0708	.0724	.0741	.0759	.0776	.0794	.0813	.0832	.0851
24.4	.0686	.0702	.0718	.0735	.0752	.0769	.0787	.0806	.0824	.0844	.0863
24.6	.0696	.0712	.0728	.0745	.0763	.0780	.0799	.0817	.0836	.0856	.0876
24.8	.0706	.0722	.0739	.0756	.0774	.0792	.0810	.0829	.0848	.0868	.0888
25.0	.0716	.0732	.0749	.0767	.0785	.0803	.0822	.0841	.0860	.0880	.0901
25.2	.0726	.0743	.0760	.0778	.0796	.0814	.0833	.0853	.0872	.0893	.0913
25.4	.0736	.0753	.0771	.0789	.0807	.0826	.0845	.0865	.0885	.0905	.0926
25.6	.0746	.0764	.0782	.0800	.0818	.0837	.0857	.0877	.0897	.0918	.0940
25.8	.0757	.0775	.0793	.0811	.0830	.0849	.0869	.0889	.0910	.0931	.0953
26.0	.0768	.0786	.0804	.0823	.0842	.0861	.0881	.0902	.0923	.0944	.0966
26.2	.0779	.0797	.0815	.0834	.0854	.0874	.0894	.0915	.0936	.0958	.0980
26.4	.0790	.0808	.0827	.0846	.0866	.0886	.0906	.0928	.0949	.0971	.0994
26.6	.0801	.0819	.0838	.0858	.0878	.0898	.0919	.0941	.0962	.0985	.1008
26.8	.0812	.0831	.0850	.0870	.0890	.0911	.0932	.0954	.0976	.0999	.1022
27.0	.0823	.0843	.0862	.0882	.0903	.0924	.0945	.0967	.0990	.1013	.1036
27.2	.0835	.0854	.0874	.0895	.0915	.0937	.0958	.0981	.1004	.1027	.1051
27.4	.0847	.0866	.0886	.0907	.0928	.0950	.0972	.0995	.1018	.1041	.1066
27.6	.0858	.0878	.0899	.0920	.0941	.0963	.0985	.1008	.1032	.1056	.1080
27.8	.0870	.0891	.0911	.0933	.0954	.0977	.0999	.1022	.1046	.1071	.1096
28.0	.0883	.0903	.0924	.0946	.0968	.0990	.1013	.1037	.1061	.1086	.1111

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.10	6.11	6.12	6.13	6.14	6.15	6.16	6.17	6.18	6.19	6.20
28.0	.0883	.0903	.0924	.0946	.0968	.0990	.1013	.1037	.1061	.1086	.1111
28.2	.0895	.0916	.0937	.0959	.0981	.1004	.1027	.1051	.1076	.1101	.1126
28.4	.0907	.0928	.0950	.0972	.0995	.1018	.1042	.1066	.1091	.1116	.1142
28.6	.0920	.0941	.0963	.0986	.1009	.1032	.1056	.1081	.1106	.1131	.1158
28.8	.0933	.0954	.0977	.0999	.1023	.1046	.1071	.1096	.1121	.1147	.1174
29.0	.0946	.0968	.0990	.1013	.1037	.1061	.1086	.1111	.1137	.1163	.1190
29.2	.0959	.0981	.1004	.1027	.1051	.1076	.1101	.1126	.1152	.1179	.1207
29.4	.0972	.0995	.1018	.1041	.1066	.1090	.1116	.1142	.1168	.1195	.1223
29.6	.0985	.1008	.1032	.1056	.1080	.1105	.1131	.1157	.1184	.1212	.1240
29.8	.0999	.1022	.1046	.1070	.1095	.1121	.1147	.1173	.1201	.1229	.1257
30.0	.101	.104	.106	.109	.111	.114	.116	.119	.122	.125	.127
30.2	.103	.105	.107	.110	.113	.115	.118	.121	.123	.126	.129
30.4	.104	.106	.109	.112	.114	.117	.119	.122	.125	.128	.131
30.6	.105	.108	.110	.113	.116	.118	.121	.124	.127	.130	.133
30.8	.107	.109	.112	.115	.117	.120	.123	.126	.129	.132	.135
31.0	.108	.111	.114	.116	.119	.122	.124	.127	.130	.133	.136
31.2	.110	.112	.115	.118	.120	.123	.126	.129	.132	.135	.138
31.4	.111	.114	.117	.119	.122	.125	.128	.131	.134	.137	.140
31.6	.113	.116	.118	.121	.124	.127	.130	.133	.136	.139	.142
31.8	.114	.117	.120	.123	.125	.128	.131	.134	.138	.141	.144
32.0	.116	.119	.121	.124	.127	.130	.133	.136	.139	.143	.146
32.2	.118	.120	.123	.126	.129	.132	.135	.138	.141	.145	.148
32.4	.119	.122	.125	.128	.131	.134	.137	.140	.143	.147	.150
32.6	.121	.124	.126	.129	.132	.135	.139	.142	.145	.149	.152
32.8	.122	.125	.128	.131	.134	.137	.140	.144	.147	.151	.154
33.0	.124	.127	.130	.133	.136	.139	.142	.146	.149	.153	.156
33.2	.126	.129	.132	.135	.138	.141	.144	.148	.151	.155	.158
33.4	.127	.130	.133	.137	.140	.143	.146	.150	.153	.157	.160
33.6	.129	.132	.135	.138	.142	.145	.148	.152	.155	.159	.162
33.8	.131	.134	.137	.140	.143	.147	.150	.154	.157	.161	.165
34.0	.133	.136	.139	.142	.145	.149	.152	.156	.159	.163	.167
34.2	.134	.137	.141	.144	.147	.151	.154	.158	.162	.165	.169
34.4	.136	.139	.143	.146	.149	.153	.156	.160	.164	.167	.171
34.6	.138	.141	.144	.148	.151	.155	.158	.162	.166	.170	.174
34.8	.140	.143	.146	.150	.153	.157	.161	.164	.168	.172	.176
35.0	.142	.145	.148	.152	.155	.159	.163	.166	.170	.174	.178

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.10	6.11	6.12	6.13	6.14	6.15	6.16	6.17	6.18	6.19	6.20
35.0	.142	.145	.148	.152	.155	.159	.163	.166	.170	.174	.178
35.2	.144	.147	.150	.154	.157	.161	.165	.169	.173	.177	.181
35.4	.145	.149	.152	.156	.159	.163	.167	.171	.175	.179	.183
35.6	.147	.151	.154	.158	.162	.165	.169	.173	.177	.181	.185
35.8	.149	.153	.156	.160	.164	.168	.171	.175	.180	.184	.188
36.0	.151	.155	.158	.162	.166	.170	.174	.178	.182	.186	.190
36.2	.153	.157	.161	.164	.168	.172	.176	.180	.184	.189	.193
36.4	.155	.159	.163	.166	.170	.174	.178	.182	.187	.191	.195
36.6	.157	.161	.165	.169	.173	.177	.181	.185	.189	.194	.198
36.8	.159	.163	.167	.171	.175	.179	.183	.187	.192	.196	.201
37.0	.162	.165	.169	.173	.177	.181	.185	.190	.194	.199	.203
37.2	.164	.167	.171	.175	.179	.184	.188	.192	.197	.201	.206
37.4	.166	.170	.174	.178	.182	.186	.190	.195	.199	.204	.209
37.6	.168	.172	.176	.180	.184	.188	.193	.197	.202	.207	.211
37.8	.170	.174	.178	.182	.187	.191	.195	.200	.205	.209	.214
38.0	.172	.176	.181	.185	.189	.193	.198	.203	.207	.212	.217
38.2	.175	.179	.183	.187	.191	.196	.200	.205	.210	.215	.220
38.4	.177	.181	.185	.190	.194	.198	.203	.208	.213	.218	.223
38.6	.179	.183	.188	.192	.196	.201	.206	.211	.215	.220	.226
38.8	.182	.186	.190	.195	.199	.204	.208	.213	.218	.223	.228
39.0	.184	.188	.193	.197	.202	.206	.211	.216	.221	.226	.231
39.2	.186	.191	.195	.200	.204	.209	.214	.219	.224	.229	.234
39.4	.189	.193	.198	.202	.207	.212	.217	.222	.227	.232	.237
39.6	.191	.196	.200	.205	.210	.214	.219	.224	.230	.235	.241
39.8	.194	.198	.203	.207	.212	.217	.222	.227	.233	.238	.244
40.0	.196	.201	.205	.210	.215	.220	.225	.230	.236	.241	.247

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.20	6.21	6.22	6.23	6.24	6.25	6.26	6.27	6.28	6.29	6.30
.0	.0131	.0134	.0137	.0140	.0144	.0147	.0150	.0154	.0158	.0161	.0165
.2	.0133	.0136	.0140	.0143	.0146	.0150	.0153	.0157	.0160	.0164	.0168
.4	.0136	.0139	.0142	.0145	.0149	.0152	.0156	.0159	.0163	.0167	.0171
.6	.0138	.0141	.0144	.0148	.0151	.0155	.0158	.0162	.0166	.0170	.0173
.8	.0140	.0143	.0147	.0150	.0154	.0157	.0161	.0165	.0168	.0172	.0176
1.0	.0142	.0146	.0149	.0153	.0156	.0160	.0164	.0167	.0171	.0175	.0179
1.2	.0145	.0148	.0152	.0155	.0159	.0163	.0166	.0170	.0174	.0178	.0182
1.4	.0147	.0151	.0154	.0158	.0162	.0165	.0169	.0173	.0177	.0181	.0185
1.6	.0150	.0153	.0157	.0161	.0164	.0168	.0172	.0176	.0180	.0184	.0189
1.8	.0152	.0156	.0159	.0163	.0167	.0171	.0175	.0179	.0183	.0187	.0192
2.0	.0155	.0158	.0162	.0166	.0170	.0174	.0178	.0182	.0186	.0191	.0195
2.2	.0157	.0161	.0165	.0169	.0173	.0177	.0181	.0185	.0189	.0194	.0198
2.4	.0160	.0164	.0168	.0172	.0176	.0180	.0184	.0188	.0192	.0197	.0202
2.6	.0163	.0167	.0170	.0174	.0178	.0183	.0187	.0191	.0196	.0200	.0205
2.8	.0165	.0169	.0173	.0177	.0181	.0186	.0190	.0194	.0199	.0204	.0208
3.0	.0168	.0172	.0176	.0180	.0184	.0189	.0193	.0198	.0202	.0207	.0212
3.2	.0171	.0175	.0179	.0183	.0188	.0192	.0196	.0201	.0206	.0210	.0215
3.4	.0174	.0178	.0182	.0186	.0191	.0195	.0200	.0204	.0209	.0214	.0219
3.6	.0177	.0181	.0185	.0189	.0194	.0198	.0203	.0208	.0212	.0217	.0222
3.8	.0180	.0184	.0188	.0192	.0197	.0202	.0206	.0211	.0216	.0221	.0226
4.0	.0183	.0187	.0191	.0196	.0200	.0205	.0210	.0215	.0220	.0225	.0230
4.2	.0186	.0190	.0194	.0199	.0204	.0208	.0213	.0218	.0223	.0228	.0234
4.4	.0189	.0193	.0198	.0202	.0207	.0212	.0217	.0222	.0227	.0232	.0238
4.6	.0192	.0196	.0201	.0205	.0210	.0215	.0220	.0225	.0231	.0236	.0241
4.8	.0195	.0199	.0204	.0209	.0214	.0219	.0224	.0229	.0234	.0240	.0245
5.0	.0198	.0203	.0207	.0212	.0217	.0222	.0227	.0233	.0238	.0244	.0249
5.2	.0201	.0206	.0211	.0216	.0221	.0226	.0231	.0237	.0242	.0248	.0253
5.4	.0205	.0209	.0214	.0219	.0224	.0230	.0235	.0240	.0246	.0252	.0258
5.6	.0208	.0213	.0218	.0223	.0228	.0233	.0239	.0244	.0250	.0256	.0262
5.8	.0211	.0216	.0221	.0226	.0232	.0237	.0243	.0248	.0254	.0260	.0266
6.0	.0215	.0220	.0225	.0230	.0236	.0241	.0247	.0252	.0258	.0264	.0270
6.2	.0218	.0223	.0229	.0234	.0239	.0245	.0251	.0256	.0262	.0269	.0275
6.4	.0222	.0227	.0232	.0238	.0243	.0249	.0255	.0261	.0267	.0273	.0279
6.6	.0225	.0231	.0236	.0242	.0247	.0253	.0259	.0265	.0271	.0277	.0284
6.8	.0229	.0234	.0240	.0245	.0251	.0257	.0263	.0269	.0275	.0282	.0288
7.0	.0233	.0238	.0244	.0249	.0255	.0261	.0267	.0273	.0280	.0286	.0293

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.20	6.21	6.22	6.23	6.24	6.25	6.26	6.27	6.28	6.29	6.30
7.0	.0233	.0238	.0244	.0249	.0255	.0261	.0267	.0273	.0280	.0286	.0293
7.2	.0237	.0242	.0248	.0253	.0259	.0265	.0272	.0278	.0284	.0291	.0298
7.4	.0240	.0246	.0252	.0257	.0263	.0270	.0276	.0282	.0289	.0296	.0303
7.6	.0244	.0250	.0256	.0262	.0268	.0274	.0280	.0287	.0294	.0300	.0307
7.8	.0248	.0254	.0260	.0266	.0272	.0278	.0285	.0291	.0298	.0305	.0312
8.0	.0252	.0258	.0264	.0270	.0276	.0283	.0289	.0296	.0303	.0310	.0317
8.2	.0256	.0262	.0268	.0274	.0281	.0287	.0294	.0301	.0308	.0315	.0322
8.4	.0260	.0266	.0272	.0279	.0285	.0292	.0299	.0306	.0313	.0320	.0328
8.6	.0264	.0271	.0277	.0283	.0290	.0297	.0304	.0311	.0318	.0325	.0333
8.8	.0269	.0275	.0281	.0288	.0294	.0301	.0308	.0316	.0323	.0330	.0338
9.0	.0273	.0279	.0286	.0292	.0299	.0306	.0313	.0321	.0328	.0336	.0343
9.2	.0277	.0284	.0290	.0297	.0304	.0311	.0318	.0326	.0333	.0341	.0349
9.4	.0282	.0288	.0295	.0302	.0309	.0316	.0323	.0331	.0339	.0346	.0354
9.6	.0286	.0293	.0300	.0306	.0314	.0321	.0328	.0336	.0344	.0352	.0360
9.8	.0291	.0297	.0304	.0311	.0319	.0326	.0334	.0341	.0349	.0357	.0366
10.0	.0295	.0302	.0309	.0316	.0324	.0331	.0339	.0347	.0355	.0363	.0372
10.2	.0300	.0307	.0314	.0321	.0329	.0336	.0344	.0352	.0360	.0369	.0377
10.4	.0305	.0312	.0319	.0326	.0334	.0342	.0350	.0358	.0366	.0375	.0383
10.6	.0309	.0317	.0324	.0331	.0339	.0347	.0355	.0363	.0372	.0381	.0389
10.8	.0314	.0322	.0329	.0337	.0344	.0353	.0361	.0369	.0378	.0387	.0396
11.0	.0319	.0327	.0334	.0342	.0350	.0358	.0366	.0375	.0384	.0393	.0402
11.2	.0324	.0332	.0339	.0347	.0355	.0364	.0372	.0381	.0390	.0399	.0408
11.4	.0329	.0337	.0345	.0353	.0361	.0369	.0378	.0387	.0396	.0405	.0414
11.6	.0334	.0342	.0350	.0358	.0367	.0375	.0384	.0393	.0402	.0411	.0421
11.8	.0340	.0347	.0356	.0364	.0372	.0381	.0390	.0399	.0408	.0418	.0427
12.0	.0345	.0353	.0361	.0369	.0378	.0387	.0396	.0405	.0415	.0424	.0434
12.2	.0350	.0358	.0367	.0375	.0384	.0393	.0402	.0411	.0421	.0431	.0441
12.4	.0356	.0364	.0372	.0381	.0390	.0399	.0408	.0418	.0428	.0437	.0448
12.6	.0361	.0370	.0378	.0387	.0396	.0405	.0415	.0424	.0434	.0444	.0455
12.8	.0367	.0375	.0384	.0393	.0402	.0411	.0421	.0431	.0441	.0451	.0462
13.0	.0372	.0381	.0390	.0399	.0408	.0418	.0428	.0438	.0448	.0458	.0469
13.2	.0378	.0387	.0396	.0405	.0415	.0424	.0434	.0444	.0455	.0465	.0476
13.4	.0384	.0393	.0402	.0411	.0421	.0431	.0441	.0451	.0462	.0472	.0483
13.6	.0390	.0399	.0408	.0418	.0428	.0437	.0448	.0458	.0469	.0480	.0491
13.8	.0396	.0405	.0415	.0424	.0434	.0444	.0455	.0465	.0476	.0487	.0498
14.0	.0402	.0411	.0421	.0431	.0441	.0451	.0462	.0472	.0483	.0495	.0506

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.20	6.21	6.22	6.23	6.24	6.25	6.26	6.27	6.28	6.29	6.30
14.0	.0402	.0411	.0421	.0431	.0441	.0451	.0462	.0472	.0483	.0495	.0506
14.2	.0408	.0418	.0427	.0437	.0448	.0458	.0469	.0480	.0491	.0502	.0514
14.4	.0414	.0424	.0434	.0444	.0454	.0465	.0476	.0487	.0498	.0510	.0522
14.6	.0421	.0431	.0441	.0451	.0461	.0472	.0483	.0494	.0506	.0518	.0530
14.8	.0427	.0437	.0447	.0458	.0468	.0479	.0490	.0502	.0514	.0526	.0538
15.0	.0434	.0444	.0454	.0465	.0476	.0487	.0498	.0510	.0521	.0534	.0546
15.2	.0440	.0451	.0461	.0472	.0483	.0494	.0506	.0517	.0529	.0542	.0554
15.4	.0447	.0457	.0468	.0479	.0490	.0502	.0513	.0525	.0537	.0550	.0563
15.6	.0454	.0464	.0475	.0486	.0498	.0509	.0521	.0533	.0546	.0558	.0571
15.8	.0461	.0471	.0482	.0494	.0505	.0517	.0529	.0541	.0554	.0567	.0580
16.0	.0468	.0479	.0490	.0501	.0513	.0525	.0537	.0549	.0562	.0575	.0589
16.2	.0475	.0486	.0497	.0509	.0521	.0533	.0545	.0558	.0571	.0584	.0598
16.4	.0482	.0493	.0505	.0516	.0528	.0541	.0553	.0566	.0579	.0593	.0607
16.6	.0489	.0501	.0512	.0524	.0536	.0549	.0562	.0575	.0588	.0602	.0616
16.8	.0497	.0508	.0520	.0532	.0544	.0557	.0570	.0583	.0597	.0611	.0625
17.0	.0504	.0516	.0528	.0540	.0553	.0565	.0579	.0592	.0606	.0620	.0634
17.2	.0512	.0523	.0536	.0548	.0561	.0574	.0587	.0601	.0615	.0629	.0644
17.4	.0519	.0531	.0544	.0556	.0569	.0583	.0596	.0610	.0624	.0639	.0654
17.6	.0527	.0539	.0552	.0565	.0578	.0591	.0605	.0619	.0634	.0648	.0663
17.8	.0535	.0547	.0560	.0573	.0586	.0600	.0614	.0628	.0643	.0658	.0673
18.0	.0543	.0556	.0568	.0582	.0595	.0609	.0623	.0638	.0653	.0668	.0683
18.2	.0551	.0564	.0577	.0590	.0604	.0618	.0633	.0647	.0662	.0678	.0694
18.4	.0559	.0572	.0586	.0599	.0613	.0627	.0642	.0657	.0672	.0688	.0704
18.6	.0568	.0581	.0594	.0608	.0622	.0637	.0652	.0667	.0682	.0698	.0714
18.8	.0576	.0589	.0603	.0617	.0631	.0646	.0661	.0677	.0692	.0708	.0725
19.0	.0584	.0598	.0612	.0626	.0641	.0656	.0671	.0687	.0703	.0719	.0736
19.2	.0593	.0607	.0621	.0636	.0650	.0665	.0681	.0697	.0713	.0730	.0747
19.4	.0602	.0616	.0630	.0645	.0660	.0675	.0691	.0707	.0724	.0740	.0758
19.6	.0611	.0625	.0640	.0654	.0670	.0685	.0701	.0718	.0734	.0751	.0769
19.8	.0620	.0634	.0649	.0664	.0680	.0695	.0712	.0728	.0745	.0762	.0780
20.0	.0629	.0644	.0659	.0674	.0690	.0706	.0722	.0739	.0756	.0774	.0792
20.2	.0638	.0653	.0668	.0684	.0700	.0716	.0733	.0750	.0767	.0785	.0803
20.4	.0648	.0663	.0678	.0694	.0710	.0727	.0743	.0761	.0778	.0797	.0815
20.6	.0657	.0672	.0688	.0704	.0720	.0737	.0754	.0772	.0790	.0808	.0827
20.8	.0667	.0682	.0698	.0714	.0731	.0748	.0765	.0783	.0801	.0820	.0839
21.0	.0676	.0692	.0708	.0725	.0742	.0759	.0777	.0795	.0813	.0832	.0851

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.20	6.21	6.22	6.23	6.24	6.25	6.26	6.27	6.28	6.29	6.30
21.0	.0676	.0692	.0708	.0725	.0742	.0759	.0777	.0795	.0813	.0832	.0851
21.2	.0686	.0702	.0719	.0735	.0752	.0770	.0788	.0806	.0825	.0844	.0864
21.4	.0696	.0713	.0729	.0746	.0763	.0781	.0799	.0818	.0837	.0857	.0876
21.6	.0706	.0723	.0740	.0757	.0775	.0793	.0811	.0830	.0849	.0869	.0889
21.8	.0717	.0733	.0751	.0768	.0786	.0804	.0823	.0842	.0862	.0882	.0902
22.0	.0727	.0744	.0761	.0779	.0797	.0816	.0835	.0854	.0874	.0894	.0915
22.2	.0738	.0755	.0772	.0790	.0809	.0828	.0847	.0867	.0887	.0907	.0929
22.4	.0748	.0766	.0784	.0802	.0821	.0840	.0859	.0879	.0900	.0921	.0942
22.6	.0759	.0777	.0795	.0813	.0832	.0852	.0872	.0892	.0913	.0934	.0956
22.8	.0770	.0788	.0806	.0825	.0844	.0864	.0884	.0905	.0926	.0947	.0969
23.0	.0781	.0799	.0818	.0837	.0857	.0877	.0897	.0918	.0939	.0961	.0983
23.2	.0793	.0811	.0830	.0849	.0869	.0889	.0910	.0931	.0953	.0975	.0998
23.4	.0804	.0823	.0842	.0861	.0881	.0902	.0923	.0944	.0966	.0989	.1012
23.6	.0816	.0835	.0854	.0874	.0894	.0915	.0936	.0958	.0980	.1003	.1026
23.8	.0827	.0846	.0866	.0886	.0907	.0928	.0950	.0972	.0994	.1018	.1041
24.0	.0839	.0859	.0879	.0899	.0920	.0941	.0963	.0986	.1009	.1032	.1056
24.2	.0851	.0871	.0891	.0912	.0933	.0955	.0977	.1000	.1023	.1047	.1071
24.4	.0863	.0883	.0904	.0925	.0946	.0968	.0991	.1014	.1038	.1062	.1087
24.6	.0876	.0896	.0917	.0938	.0960	.0982	.1005	.1029	.1052	.1077	.1102
24.8	.0888	.0909	.0930	.0951	.0974	.0996	.1019	.1043	.1067	.1092	.1118
25.0	.0901	.0922	.0943	.0965	.0987	.1010	.1034	.1058	.1083	.1108	.1134
25.2	.0913	.0935	.0956	.0979	.1002	.1025	.1049	.1073	.1098	.1124	.1150
25.4	.0926	.0948	.0970	.0993	.1016	.1039	.1064	.1088	.1114	.1140	.1166
25.6	.0940	.0961	.0984	.1007	.1030	.1054	.1079	.1104	.1129	.1156	.1183
25.8	.0953	.0975	.0998	.1021	.1045	.1069	.1094	.1119	.1145	.1172	.1199
26.0	.0966	.0989	.1012	.1035	.1059	.1084	.1109	.1135	.1162	.1189	.1216
26.2	.0980	.1003	.1026	.1050	.1074	.1099	.1125	.1151	.1178	.1205	.1233
26.4	.0994	.1017	.1041	.1065	.1090	.1115	.1141	.1167	.1195	.1222	.1251
26.6	.101	.103	.106	.108	.110	.113	.116	.118	.121	.124	.127
26.8	.102	.105	.107	.109	.112	.115	.117	.120	.123	.126	.129
27.0	.104	.106	.109	.111	.114	.116	.119	.122	.125	.127	.130
27.2	.105	.108	.110	.113	.115	.118	.121	.123	.126	.129	.132
27.4	.107	.109	.112	.114	.117	.120	.122	.125	.128	.131	.134
27.6	.108	.111	.113	.116	.118	.121	.124	.127	.130	.133	.136
27.8	.110	.112	.115	.117	.120	.123	.126	.129	.132	.135	.138
28.0	.111	.114	.116	.119	.122	.125	.128	.130	.134	.137	.140

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.20	6.21	6.22	6.23	6.24	6.25	6.26	6.27	6.28	6.29	6.30
28.0	.111	.114	.116	.119	.122	.125	.128	.130	.134	.137	.140
28.2	.113	.115	.118	.121	.123	.126	.129	.132	.135	.139	.142
28.4	.114	.117	.120	.122	.125	.128	.131	.134	.137	.140	.144
28.6	.116	.118	.121	.124	.127	.130	.133	.136	.139	.142	.146
28.8	.117	.120	.123	.126	.129	.132	.135	.138	.141	.144	.148
29.0	.119	.122	.125	.128	.130	.134	.137	.140	.143	.146	.150
29.2	.121	.123	.126	.129	.132	.135	.139	.142	.145	.148	.152
29.4	.122	.125	.128	.131	.134	.137	.140	.144	.147	.150	.154
29.6	.124	.127	.130	.133	.136	.139	.142	.146	.149	.153	.156
29.8	.126	.129	.132	.135	.138	.141	.144	.148	.151	.155	.158
30.0	.127	.130	.133	.137	.140	.143	.146	.150	.153	.157	.160
30.2	.129	.132	.135	.138	.142	.145	.148	.152	.155	.159	.163
30.4	.131	.134	.137	.140	.144	.147	.150	.154	.157	.161	.165
30.6	.133	.136	.139	.142	.146	.149	.152	.156	.160	.163	.167
30.8	.135	.138	.141	.144	.148	.151	.154	.158	.162	.166	.169
31.0	.136	.140	.143	.146	.150	.153	.157	.160	.164	.168	.172
31.2	.138	.142	.145	.148	.152	.155	.159	.162	.166	.170	.174
31.4	.140	.143	.147	.150	.154	.157	.161	.165	.168	.172	.176
31.6	.142	.145	.149	.152	.156	.159	.163	.167	.171	.175	.179
31.8	.144	.147	.151	.154	.158	.162	.165	.169	.173	.177	.181
32.0	.146	.149	.153	.156	.160	.164	.168	.171	.175	.180	.184
32.2	.148	.151	.155	.159	.162	.166	.170	.174	.178	.182	.186
32.4	.150	.153	.157	.161	.164	.168	.172	.176	.180	.184	.189
32.6	.152	.156	.159	.163	.167	.170	.174	.179	.183	.187	.191
32.8	.154	.158	.161	.165	.169	.173	.177	.181	.185	.189	.194
33.0	.156	.160	.163	.167	.171	.175	.179	.183	.188	.192	.196
33.2	.158	.162	.166	.170	.173	.177	.182	.186	.190	.195	.199
33.4	.160	.164	.168	.172	.176	.180	.184	.188	.193	.197	.202
33.6	.162	.166	.170	.174	.178	.182	.187	.191	.195	.200	.204
33.8	.165	.168	.172	.176	.181	.185	.189	.193	.198	.203	.207
34.0	.167	.171	.175	.179	.183	.187	.192	.196	.201	.205	.210
34.2	.169	.173	.177	.181	.185	.190	.194	.199	.203	.208	.213
34.4	.171	.175	.179	.184	.188	.192	.197	.201	.206	.211	.216
34.6	.174	.178	.182	.186	.190	.195	.199	.204	.209	.214	.219
34.8	.176	.180	.184	.189	.193	.197	.202	.207	.211	.216	.221
35.0	.178	.182	.187	.191	.195	.200	.205	.209	.214	.219	.224

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.20	6.21	6.22	6.23	6.24	6.25	6.26	6.27	6.28	6.29	6.30
35.0	.178	.182	.187	.191	.195	.200	.205	.209	.214	.219	.224
35.2	.181	.185	.189	.194	.198	.203	.207	.212	.217	.222	.227
35.4	.183	.187	.192	.196	.201	.205	.210	.215	.220	.225	.230
35.6	.185	.190	.194	.199	.203	.208	.213	.218	.223	.228	.233
35.8	.188	.192	.197	.201	.206	.211	.216	.221	.226	.231	.237
36.0	.190	.195	.199	.204	.209	.214	.219	.224	.229	.234	.240
36.2	.193	.197	.202	.207	.212	.216	.221	.227	.232	.237	.243
36.4	.195	.200	.205	.209	.214	.219	.224	.230	.235	.240	.246
36.6	.198	.203	.207	.212	.217	.222	.227	.233	.238	.244	.249
36.8	.201	.205	.210	.215	.220	.225	.230	.236	.241	.247	.253
37.0	.203	.208	.213	.218	.223	.228	.233	.239	.244	.250	.256
37.2	.206	.211	.216	.221	.226	.231	.236	.242	.248	.253	.259
37.4	.209	.214	.218	.224	.229	.234	.240	.245	.251	.257	.263
37.6	.211	.216	.221	.226	.232	.237	.243	.248	.254	.260	.266
37.8	.214	.219	.224	.229	.235	.240	.246	.252	.257	.263	.269
38.0	.217	.222	.227	.232	.238	.243	.249	.255	.261	.267	.273
38.2	.220	.225	.230	.235	.241	.247	.252	.258	.264	.270	.277
38.4	.223	.228	.233	.239	.244	.250	.256	.261	.268	.274	.280
38.6	.226	.231	.236	.242	.247	.253	.259	.265	.271	.277	.284
38.8	.228	.234	.239	.245	.250	.256	.262	.268	.275	.281	.287
39.0	.231	.237	.242	.248	.254	.260	.266	.272	.278	.285	.291
39.2	.234	.240	.245	.251	.257	.263	.269	.275	.282	.288	.295
39.4	.237	.243	.249	.254	.260	.266	.273	.279	.285	.292	.299
39.6	.241	.246	.252	.258	.264	.270	.276	.282	.289	.296	.303
39.8	.244	.249	.255	.261	.267	.273	.280	.286	.293	.300	.306
40.0	.247	.252	.258	.264	.270	.277	.283	.290	.297	.303	.310

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.30	6.31	6.32	6.33	6.34	6.35	6.36	6.37	6.38	6.39	6.40
.0	.0165	.0169	.0173	.0177	.0181	.0185	.0189	.0194	.0198	.0203	.0208
.2	.0168	.0172	.0176	.0180	.0184	.0188	.0193	.0197	.0202	.0206	.0211
.4	.0171	.0175	.0179	.0183	.0187	.0191	.0196	.0200	.0205	.0210	.0215
.6	.0173	.0178	.0182	.0186	.0190	.0195	.0199	.0204	.0209	.0213	.0218
.8	.0176	.0181	.0185	.0189	.0193	.0198	.0203	.0207	.0212	.0217	.0222
1.0	.0179	.0184	.0188	.0192	.0197	.0201	.0206	.0211	.0216	.0221	.0226
1.2	.0182	.0187	.0191	.0195	.0200	.0205	.0209	.0214	.0219	.0224	.0230
1.4	.0185	.0190	.0194	.0199	.0203	.0208	.0213	.0218	.0223	.0228	.0233
1.6	.0189	.0193	.0197	.0202	.0207	.0212	.0217	.0222	.0227	.0232	.0237
1.8	.0192	.0196	.0201	.0205	.0210	.0215	.0220	.0225	.0231	.0236	.0241
2.0	.0195	.0199	.0204	.0209	.0214	.0219	.0224	.0229	.0234	.0240	.0245
2.2	.0198	.0203	.0208	.0212	.0217	.0222	.0228	.0233	.0238	.0244	.0250
2.4	.0202	.0206	.0211	.0216	.0221	.0226	.0231	.0237	.0242	.0248	.0254
2.6	.0205	.0210	.0215	.0220	.0225	.0230	.0235	.0241	.0246	.0252	.0258
2.8	.0208	.0213	.0218	.0223	.0228	.0234	.0239	.0245	.0250	.0256	.0262
3.0	.0212	.0217	.0222	.0227	.0232	.0238	.0243	.0249	.0255	.0261	.0267
3.2	.0215	.0220	.0225	.0231	.0236	.0242	.0247	.0253	.0259	.0265	.0271
3.4	.0219	.0224	.0229	.0234	.0240	.0246	.0251	.0257	.0263	.0269	.0275
3.6	.0222	.0228	.0233	.0238	.0244	.0250	.0255	.0261	.0267	.0274	.0280
3.8	.0226	.0231	.0237	.0242	.0248	.0254	.0260	.0266	.0272	.0278	.0285
4.0	.0230	.0235	.0241	.0246	.0252	.0258	.0264	.0270	.0276	.0283	.0289
4.2	.0234	.0239	.0245	.0250	.0256	.0262	.0268	.0275	.0281	.0287	.0294
4.4	.0238	.0243	.0249	.0254	.0260	.0266	.0273	.0279	.0286	.0292	.0299
4.6	.0241	.0247	.0253	.0259	.0265	.0271	.0277	.0284	.0290	.0297	.0304
4.8	.0245	.0251	.0257	.0263	.0269	.0275	.0282	.0288	.0295	.0302	.0309
5.0	.0249	.0255	.0261	.0267	.0273	.0280	.0286	.0293	.0300	.0307	.0314
5.2	.0253	.0259	.0265	.0272	.0278	.0284	.0291	.0298	.0305	.0312	.0319
5.4	.0258	.0264	.0270	.0276	.0282	.0289	.0296	.0303	.0310	.0317	.0324
5.6	.0262	.0268	.0274	.0281	.0287	.0294	.0301	.0308	.0315	.0322	.0330
5.8	.0266	.0272	.0279	.0285	.0292	.0299	.0305	.0313	.0320	.0327	.0335
6.0	.0270	.0277	.0283	.0290	.0296	.0303	.0310	.0318	.0325	.0333	.0340
6.2	.0275	.0281	.0288	.0294	.0301	.0308	.0315	.0323	.0330	.0338	.0346
6.4	.0279	.0286	.0292	.0299	.0306	.0313	.0321	.0328	.0336	.0344	.0352
6.6	.0284	.0290	.0297	.0304	.0311	.0318	.0326	.0333	.0341	.0349	.0357
6.8	.0288	.0295	.0302	.0309	.0316	.0324	.0331	.0339	.0347	.0355	.0363
7.0	.0293	.0300	.0307	.0314	.0321	.0329	.0336	.0344	.0352	.0360	.0369

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.30	6.31	6.32	6.33	6.34	6.35	6.36	6.37	6.38	6.39	6.40
7.0	.0293	.0300	.0307	.0314	.0321	.0329	.0336	.0344	.0352	.0360	.0369
7.2	.0298	.0305	.0312	.0319	.0326	.0334	.0342	.0350	.0358	.0366	.0375
7.4	.0303	.0310	.0317	.0324	.0332	.0339	.0347	.0355	.0364	.0372	.0381
7.6	.0307	.0315	.0322	.0329	.0337	.0345	.0353	.0361	.0370	.0378	.0387
7.8	.0312	.0320	.0327	.0335	.0342	.0350	.0359	.0367	.0375	.0384	.0393
8.0	.0317	.0325	.0332	.0340	.0348	.0356	.0364	.0373	.0381	.0390	.0399
8.2	.0322	.0330	.0338	.0345	.0353	.0362	.0370	.0379	.0388	.0397	.0406
8.4	.0328	.0335	.0343	.0351	.0359	.0368	.0376	.0385	.0394	.0403	.0412
8.6	.0333	.0341	.0348	.0357	.0365	.0373	.0382	.0391	.0400	.0409	.0419
8.8	.0338	.0346	.0354	.0362	.0371	.0379	.0388	.0397	.0406	.0416	.0426
9.0	.0343	.0351	.0360	.0368	.0377	.0385	.0394	.0404	.0413	.0423	.0432
9.2	.0349	.0357	.0365	.0374	.0383	.0391	.0401	.0410	.0419	.0429	.0439
9.4	.0354	.0363	.0371	.0380	.0389	.0398	.0407	.0416	.0426	.0436	.0446
9.6	.0360	.0368	.0377	.0386	.0395	.0404	.0413	.0423	.0433	.0443	.0453
9.8	.0366	.0374	.0383	.0392	.0401	.0410	.0420	.0430	.0440	.0450	.0460
10.0	.0372	.0380	.0389	.0398	.0407	.0417	.0427	.0437	.0447	.0457	.0468
10.2	.0377	.0386	.0395	.0404	.0414	.0423	.0433	.0443	.0454	.0464	.0475
10.4	.0383	.0392	.0401	.0411	.0420	.0430	.0440	.0450	.0461	.0472	.0483
10.6	.0389	.0398	.0408	.0417	.0427	.0437	.0447	.0457	.0468	.0479	.0490
10.8	.0396	.0405	.0414	.0424	.0434	.0444	.0454	.0465	.0475	.0487	.0498
11.0	.0402	.0411	.0421	.0430	.0440	.0451	.0461	.0472	.0483	.0494	.0506
11.2	.0408	.0418	.0427	.0437	.0447	.0458	.0468	.0479	.0490	.0502	.0514
11.4	.0414	.0424	.0434	.0444	.0454	.0465	.0476	.0487	.0498	.0510	.0522
11.6	.0421	.0431	.0441	.0451	.0461	.0472	.0483	.0494	.0506	.0518	.0530
11.8	.0427	.0437	.0448	.0458	.0469	.0480	.0491	.0502	.0514	.0526	.0538
12.0	.0434	.0444	.0455	.0465	.0476	.0487	.0498	.0510	.0522	.0534	.0546
12.2	.0441	.0451	.0462	.0472	.0483	.0495	.0506	.0518	.0530	.0542	.0555
12.4	.0448	.0458	.0469	.0480	.0491	.0502	.0514	.0526	.0538	.0551	.0564
12.6	.0455	.0465	.0476	.0487	.0498	.0510	.0522	.0534	.0547	.0559	.0572
12.8	.0462	.0472	.0483	.0495	.0506	.0518	.0530	.0542	.0555	.0568	.0581
13.0	.0469	.0480	.0491	.0502	.0514	.0526	.0538	.0551	.0564	.0577	.0590
13.2	.0476	.0487	.0498	.0510	.0522	.0534	.0547	.0559	.0572	.0586	.0599
13.4	.0483	.0495	.0506	.0518	.0530	.0542	.0555	.0568	.0581	.0595	.0608
13.6	.0491	.0502	.0514	.0526	.0538	.0551	.0564	.0577	.0590	.0604	.0618
13.8	.0498	.0510	.0522	.0534	.0546	.0559	.0572	.0586	.0599	.0613	.0627
14.0	.0506	.0518	.0530	.0542	.0555	.0568	.0581	.0594	.0608	.0622	.0637

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.30	6.31	6.32	6.33	6.34	6.35	6.36	6.37	6.38	6.39	6.40
14.0	.0506	.0518	.0530	.0542	.0555	.0568	.0581	.0594	.0608	.0622	.0637
14.2	.0514	.0526	.0538	.0551	.0563	.0576	.0590	.0604	.0618	.0632	.0647
14.4	.0522	.0534	.0546	.0559	.0572	.0585	.0599	.0613	.0627	.0642	.0657
14.6	.0530	.0542	.0555	.0568	.0581	.0594	.0608	.0622	.0637	.0652	.0667
14.8	.0538	.0550	.0563	.0576	.0590	.0603	.0617	.0632	.0646	.0661	.0677
15.0	.0546	.0559	.0572	.0585	.0599	.0613	.0627	.0641	.0656	.0672	.0687
15.2	.0554	.0567	.0580	.0594	.0608	.0622	.0636	.0651	.0666	.0682	.0698
15.4	.0563	.0576	.0589	.0603	.0617	.0631	.0646	.0661	.0676	.0692	.0708
15.6	.0571	.0585	.0598	.0612	.0626	.0641	.0656	.0671	.0687	.0703	.0719
15.8	.0580	.0593	.0607	.0621	.0636	.0651	.0666	.0681	.0697	.0713	.0730
16.0	.0589	.0602	.0616	.0631	.0645	.0660	.0676	.0692	.0708	.0724	.0741
16.2	.0598	.0611	.0626	.0640	.0655	.0670	.0686	.0702	.0718	.0735	.0752
16.4	.0607	.0621	.0635	.0650	.0665	.0681	.0696	.0713	.0729	.0746	.0764
16.6	.0616	.0630	.0645	.0660	.0675	.0691	.0707	.0723	.0740	.0757	.0775
16.8	.0625	.0640	.0654	.0670	.0685	.0701	.0718	.0734	.0751	.0769	.0787
17.0	.0634	.0649	.0664	.0680	.0696	.0712	.0728	.0745	.0763	.0780	.0799
17.2	.0644	.0659	.0674	.0690	.0706	.0722	.0739	.0756	.0774	.0792	.0811
17.4	.0654	.0669	.0684	.0700	.0717	.0733	.0750	.0768	.0786	.0804	.0823
17.6	.0663	.0679	.0695	.0711	.0727	.0744	.0762	.0779	.0797	.0816	.0835
17.8	.0673	.0689	.0705	.0721	.0738	.0755	.0773	.0791	.0809	.0828	.0847
18.0	.0683	.0699	.0716	.0732	.0749	.0767	.0785	.0803	.0821	.0841	.0860
18.2	.0694	.0710	.0726	.0743	.0760	.0778	.0796	.0815	.0834	.0853	.0873
18.4	.0704	.0720	.0737	.0754	.0772	.0790	.0808	.0827	.0846	.0866	.0886
18.6	.0714	.0731	.0748	.0765	.0783	.0801	.0820	.0839	.0859	.0879	.0899
18.8	.0725	.0742	.0759	.0777	.0795	.0813	.0832	.0852	.0871	.0892	.0912
19.0	.0736	.0753	.0770	.0788	.0807	.0825	.0845	.0864	.0884	.0905	.0926
19.2	.0747	.0764	.0782	.0800	.0819	.0838	.0857	.0877	.0897	.0918	.0940
19.4	.0758	.0775	.0793	.0812	.0831	.0850	.0870	.0890	.0911	.0932	.0954
19.6	.0769	.0787	.0805	.0824	.0843	.0863	.0883	.0903	.0924	.0946	.0968
19.8	.0780	.0798	.0817	.0836	.0855	.0875	.0896	.0916	.0938	.0960	.0982
20.0	.0792	.0810	.0829	.0848	.0868	.0888	.0909	.0930	.0952	.0974	.0996
20.2	.0803	.0822	.0841	.0861	.0881	.0901	.0922	.0944	.0966	.0988	.1011
20.4	.0815	.0834	.0853	.0873	.0894	.0914	.0936	.0958	.0980	.1003	.1026
20.6	.0827	.0846	.0866	.0886	.0907	.0928	.0949	.0972	.0994	.1017	.1041
20.8	.0839	.0859	.0879	.0899	.0920	.0941	.0963	.0986	.1009	.1032	.1056
21.0	.0851	.0871	.0892	.0912	.0934	.0955	.0977	.1000	.1023	.1047	.1072

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.30	6.31	6.32	6.33	6.34	6.35	6.36	6.37	6.38	6.39	6.40
21.0	.0851	.0871	.0892	.0912	.0934	.0955	.0977	.1000	.1023	.1047	.1072
21.2	.0864	.0884	.0905	.0926	.0947	.0969	.0992	.1015	.1038	.1063	.1087
21.4	.0876	.0897	.0918	.0939	.0961	.0983	.1006	.1030	.1054	.1078	.1103
21.6	.0889	.0910	.0931	.0953	.0975	.0998	.1021	.1045	.1069	.1094	.1119
21.8	.0902	.0923	.0945	.0967	.0989	.1012	.1036	.1060	.1084	.1110	.1135
22.0	.0915	.0937	.0958	.0981	.1003	.1027	.1051	.1075	.1100	.1126	.1152
22.2	.0929	.0950	.0972	.0995	.1018	.1042	.1066	.1091	.1116	.1142	.1169
22.4	.0942	.0964	.0986	.1009	.1033	.1057	.1081	.1107	.1132	.1159	.1186
22.6	.0956	.0978	.1001	.1024	.1048	.1072	.1097	.1123	.1149	.1175	.1203
22.8	.0969	.0992	.1015	.1039	.1063	.1088	.1113	.1139	.1165	.1192	.1220
23.0	.0983	.1006	.1030	.1054	.1078	.1103	.1129	.1155	.1182	.1210	.1238
23.2	.0998	.1021	.1045	.1069	.1094	.1119	.1145	.1172	.1199	.1227	.1256
23.4	.101	.104	.106	.108	.111	.114	.116	.119	.122	.124	.127
23.6	.103	.105	.107	.110	.113	.115	.118	.121	.123	.126	.129
23.8	.104	.107	.109	.112	.114	.117	.120	.122	.125	.128	.131
24.0	.106	.108	.111	.113	.116	.118	.121	.124	.127	.130	.133
24.2	.107	.110	.112	.115	.117	.120	.123	.126	.129	.132	.135
24.4	.109	.111	.114	.116	.119	.122	.125	.128	.131	.134	.137
24.6	.110	.113	.115	.118	.121	.124	.127	.129	.132	.136	.139
24.8	.112	.114	.117	.120	.123	.125	.128	.131	.134	.137	.141
25.0	.113	.116	.119	.121	.124	.127	.130	.133	.136	.139	.143
25.2	.115	.118	.120	.123	.126	.129	.132	.135	.138	.141	.145
25.4	.117	.119	.122	.125	.128	.131	.134	.137	.140	.143	.147
25.6	.118	.121	.124	.127	.130	.133	.136	.139	.142	.145	.149
25.8	.120	.123	.126	.128	.131	.135	.138	.141	.144	.148	.151
26.0	.122	.124	.127	.130	.133	.136	.140	.143	.146	.150	.153
26.2	.123	.126	.129	.132	.135	.138	.142	.145	.148	.152	.155
26.4	.125	.128	.131	.134	.137	.140	.144	.147	.150	.154	.157
26.6	.127	.130	.133	.136	.139	.142	.146	.149	.152	.156	.160
26.8	.129	.132	.135	.138	.141	.144	.148	.151	.155	.158	.162
27.0	.130	.133	.137	.140	.143	.146	.150	.153	.157	.160	.164
27.2	.132	.135	.138	.142	.145	.148	.152	.155	.159	.163	.166
27.4	.134	.137	.140	.144	.147	.150	.154	.158	.161	.165	.169
27.6	.136	.139	.142	.146	.149	.153	.156	.160	.163	.167	.171
27.8	.138	.141	.144	.148	.151	.155	.158	.162	.166	.170	.174
28.0	.140	.143	.146	.150	.153	.157	.160	.164	.168	.172	.176

TEMP DEG C	PH 6.30	6.31	6.32	6.33	6.34	6.35	6.36	6.37	6.38	6.39	6.40
28.0	.140	.143	.146	.150	.153	.157	.160	.164	.168	.172	.176
28.2	.142	.145	.148	.152	.155	.159	.163	.167	.170	.174	.178
28.4	.144	.147	.150	.154	.158	.161	.165	.169	.173	.177	.181
28.6	.146	.149	.153	.156	.160	.163	.167	.171	.175	.179	.183
28.8	.148	.151	.155	.158	.162	.166	.170	.174	.178	.182	.186
29.0	.150	.153	.157	.160	.164	.168	.172	.176	.180	.184	.188
29.2	.152	.155	.159	.163	.166	.170	.174	.178	.183	.187	.191
29.4	.154	.158	.161	.165	.169	.173	.177	.181	.185	.189	.194
29.6	.156	.160	.163	.167	.171	.175	.179	.183	.188	.192	.196
29.8	.158	.162	.166	.170	.173	.177	.182	.186	.190	.195	.199
30.0	.160	.164	.168	.172	.176	.180	.184	.188	.193	.197	.202
30.2	.163	.166	.170	.174	.178	.182	.187	.191	.195	.200	.205
30.4	.165	.169	.173	.177	.181	.185	.189	.194	.198	.203	.207
30.6	.167	.171	.175	.179	.183	.187	.192	.196	.201	.205	.210
30.8	.169	.173	.177	.181	.186	.190	.194	.199	.204	.208	.213
31.0	.172	.176	.180	.184	.188	.193	.197	.202	.206	.211	.216
31.2	.174	.178	.182	.186	.191	.195	.200	.204	.209	.214	.219
31.4	.176	.181	.185	.189	.193	.198	.202	.207	.212	.217	.222
31.6	.179	.183	.187	.192	.196	.201	.205	.210	.215	.220	.225
31.8	.181	.185	.190	.194	.199	.203	.208	.213	.218	.223	.228
32.0	.184	.188	.192	.197	.201	.206	.211	.216	.221	.226	.231
32.2	.186	.191	.195	.199	.204	.209	.214	.219	.224	.229	.234
32.4	.189	.193	.198	.202	.207	.212	.217	.222	.227	.232	.237
32.6	.191	.196	.200	.205	.210	.215	.220	.225	.230	.235	.241
32.8	.194	.198	.203	.208	.212	.217	.222	.228	.233	.238	.244
33.0	.196	.201	.206	.210	.215	.220	.225	.231	.236	.242	.247
33.2	.199	.204	.208	.213	.218	.223	.229	.234	.239	.245	.251
33.4	.202	.206	.211	.216	.221	.226	.232	.237	.242	.248	.254
33.6	.204	.209	.214	.219	.224	.229	.235	.240	.246	.251	.257
33.8	.207	.212	.217	.222	.227	.232	.238	.243	.249	.255	.261
34.0	.210	.215	.220	.225	.230	.236	.241	.247	.252	.258	.264
34.2	.213	.218	.223	.228	.233	.239	.244	.250	.256	.262	.268
34.4	.216	.221	.226	.231	.236	.242	.248	.253	.259	.265	.271
34.6	.219	.224	.229	.234	.240	.245	.251	.257	.263	.269	.275
34.8	.221	.227	.232	.237	.243	.248	.254	.260	.266	.272	.279
35.0	.224	.230	.235	.240	.246	.252	.258	.264	.270	.276	.282

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.30	6.31	6.32	6.33	6.34	6.35	6.36	6.37	6.38	6.39	6.40
35.0	.224	.230	.235	.240	.246	.252	.258	.264	.270	.276	.282
35.2	.227	.233	.238	.244	.249	.255	.261	.267	.273	.280	.286
35.4	.230	.236	.241	.247	.253	.258	.264	.271	.277	.283	.290
35.6	.233	.239	.244	.250	.256	.262	.268	.274	.280	.287	.294
35.8	.237	.242	.248	.253	.259	.265	.271	.278	.284	.291	.298
36.0	.240	.245	.251	.257	.263	.269	.275	.281	.288	.295	.301
36.2	.243	.248	.254	.260	.266	.272	.279	.285	.292	.299	.305
36.4	.246	.252	.258	.264	.270	.276	.282	.289	.296	.302	.309
36.6	.249	.255	.261	.267	.273	.280	.286	.293	.299	.306	.314
36.8	.253	.258	.264	.271	.277	.283	.290	.297	.303	.310	.318
37.0	.256	.262	.268	.274	.280	.287	.294	.300	.307	.315	.322
37.2	.259	.265	.271	.278	.284	.291	.297	.304	.311	.319	.326
37.4	.263	.269	.275	.281	.288	.295	.301	.308	.316	.323	.330
37.6	.266	.272	.278	.285	.292	.298	.305	.312	.320	.327	.335
37.8	.269	.276	.282	.289	.295	.302	.309	.316	.324	.331	.339
38.0	.273	.279	.286	.292	.299	.306	.313	.321	.328	.336	.343
38.2	.277	.283	.290	.296	.303	.310	.317	.325	.332	.340	.348
38.4	.280	.287	.293	.300	.307	.314	.321	.329	.337	.344	.352
38.6	.284	.290	.297	.304	.311	.318	.326	.333	.341	.349	.357
38.8	.287	.294	.301	.308	.315	.322	.330	.338	.345	.353	.362
39.0	.291	.298	.305	.312	.319	.327	.334	.342	.350	.358	.366
39.2	.295	.302	.309	.316	.323	.331	.338	.346	.354	.363	.371
39.4	.299	.306	.313	.320	.327	.335	.343	.351	.359	.367	.376
39.6	.303	.310	.317	.324	.332	.339	.347	.355	.364	.372	.381
39.8	.306	.314	.321	.328	.336	.344	.352	.360	.368	.377	.386
40.0	.310	.318	.325	.333	.340	.348	.356	.365	.373	.382	.391

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.40	6.41	6.42	6.43	6.44	6.45	6.46	6.47	6.48	6.49	6.50
.0	.0208	.0212	.0217	.0222	.0228	.0233	.0238	.0244	.0250	.0255	.0261
.2	.0211	.0216	.0221	.0226	.0232	.0237	.0242	.0248	.0254	.0260	.0266
.4	.0215	.0220	.0225	.0230	.0235	.0241	.0247	.0252	.0258	.0264	.0270
.6	.0218	.0223	.0229	.0234	.0239	.0245	.0251	.0257	.0263	.0269	.0275
.8	.0222	.0227	.0233	.0238	.0243	.0249	.0255	.0261	.0267	.0273	.0280
1.0	.0226	.0231	.0236	.0242	.0248	.0253	.0259	.0265	.0271	.0278	.0284
1.2	.0230	.0235	.0240	.0246	.0252	.0258	.0264	.0270	.0276	.0282	.0289
1.4	.0233	.0239	.0244	.0250	.0256	.0262	.0268	.0274	.0281	.0287	.0294
1.6	.0237	.0243	.0249	.0254	.0260	.0266	.0273	.0279	.0285	.0292	.0299
1.8	.0241	.0247	.0253	.0259	.0265	.0271	.0277	.0284	.0290	.0297	.0304
2.0	.0245	.0251	.0257	.0263	.0269	.0275	.0282	.0288	.0295	.0302	.0309
2.2	.0250	.0255	.0261	.0267	.0274	.0280	.0286	.0293	.0300	.0307	.0314
2.4	.0254	.0260	.0266	.0272	.0278	.0285	.0291	.0298	.0305	.0312	.0319
2.6	.0258	.0264	.0270	.0276	.0283	.0289	.0296	.0303	.0310	.0317	.0325
2.8	.0262	.0268	.0275	.0281	.0288	.0294	.0301	.0308	.0315	.0323	.0330
3.0	.0267	.0273	.0279	.0286	.0292	.0299	.0306	.0313	.0320	.0328	.0336
3.2	.0271	.0277	.0284	.0290	.0297	.0304	.0311	.0318	.0326	.0333	.0341
3.4	.0275	.0282	.0288	.0295	.0302	.0309	.0316	.0324	.0331	.0339	.0347
3.6	.0280	.0287	.0293	.0300	.0307	.0314	.0322	.0329	.0337	.0345	.0353
3.8	.0285	.0291	.0298	.0305	.0312	.0319	.0327	.0334	.0342	.0350	.0358
4.0	.0289	.0296	.0303	.0310	.0317	.0325	.0332	.0340	.0348	.0356	.0364
4.2	.0294	.0301	.0308	.0315	.0323	.0330	.0338	.0346	.0354	.0362	.0370
4.4	.0299	.0306	.0313	.0320	.0328	.0335	.0343	.0351	.0359	.0368	.0376
4.6	.0304	.0311	.0318	.0326	.0333	.0341	.0349	.0357	.0365	.0374	.0383
4.8	.0309	.0316	.0323	.0331	.0339	.0347	.0355	.0363	.0371	.0380	.0389
5.0	.0314	.0321	.0329	.0336	.0344	.0352	.0360	.0369	.0377	.0386	.0395
5.2	.0319	.0326	.0334	.0342	.0350	.0358	.0366	.0375	.0384	.0393	.0402
5.4	.0324	.0332	.0340	.0347	.0356	.0364	.0372	.0381	.0390	.0399	.0408
5.6	.0330	.0337	.0345	.0353	.0361	.0370	.0378	.0387	.0396	.0405	.0415
5.8	.0335	.0343	.0351	.0359	.0367	.0376	.0385	.0393	.0403	.0412	.0422
6.0	.0340	.0348	.0356	.0365	.0373	.0382	.0391	.0400	.0409	.0419	.0428
6.2	.0346	.0354	.0362	.0371	.0379	.0388	.0397	.0406	.0416	.0426	.0435
6.4	.0352	.0360	.0368	.0377	.0385	.0394	.0404	.0413	.0423	.0432	.0442
6.6	.0357	.0366	.0374	.0383	.0392	.0401	.0410	.0420	.0429	.0439	.0450
6.8	.0363	.0371	.0380	.0389	.0398	.0407	.0417	.0426	.0436	.0447	.0457
7.0	.0369	.0377	.0386	.0395	.0404	.0414	.0423	.0433	.0443	.0454	.0464

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.40	6.41	6.42	6.43	6.44	6.45	6.46	6.47	6.48	6.49	6.50
7.0	.0369	.0377	.0386	.0395	.0404	.0414	.0423	.0433	.0443	.0454	.0464
7.2	.0375	.0384	.0392	.0402	.0411	.0420	.0430	.0440	.0451	.0461	.0472
7.4	.0381	.0390	.0399	.0408	.0418	.0427	.0437	.0447	.0458	.0468	.0479
7.6	.0387	.0396	.0405	.0415	.0424	.0434	.0444	.0455	.0465	.0476	.0487
7.8	.0393	.0402	.0412	.0421	.0431	.0441	.0451	.0462	.0473	.0484	.0495
8.0	.0399	.0409	.0418	.0428	.0438	.0448	.0459	.0469	.0480	.0491	.0503
8.2	.0406	.0415	.0425	.0435	.0445	.0455	.0466	.0477	.0488	.0499	.0511
8.4	.0412	.0422	.0432	.0442	.0452	.0463	.0473	.0484	.0496	.0507	.0519
8.6	.0419	.0429	.0439	.0449	.0459	.0470	.0481	.0492	.0504	.0515	.0527
8.8	.0426	.0435	.0446	.0456	.0467	.0477	.0489	.0500	.0512	.0524	.0536
9.0	.0432	.0442	.0453	.0463	.0474	.0485	.0496	.0508	.0520	.0532	.0544
9.2	.0439	.0449	.0460	.0471	.0482	.0493	.0504	.0516	.0528	.0540	.0553
9.4	.0446	.0457	.0467	.0478	.0489	.0501	.0512	.0524	.0536	.0549	.0562
9.6	.0453	.0464	.0475	.0486	.0497	.0509	.0520	.0532	.0545	.0558	.0571
9.8	.0460	.0471	.0482	.0493	.0505	.0517	.0529	.0541	.0554	.0566	.0580
10.0	.0468	.0479	.0490	.0501	.0513	.0525	.0537	.0549	.0562	.0575	.0589
10.2	.0475	.0486	.0497	.0509	.0521	.0533	.0545	.0558	.0571	.0584	.0598
10.4	.0483	.0494	.0505	.0517	.0529	.0541	.0554	.0567	.0580	.0594	.0607
10.6	.0490	.0502	.0513	.0525	.0537	.0550	.0563	.0576	.0589	.0603	.0617
10.8	.0498	.0509	.0521	.0533	.0546	.0559	.0572	.0585	.0599	.0612	.0627
11.0	.0506	.0517	.0529	.0542	.0554	.0567	.0581	.0594	.0608	.0622	.0637
11.2	.0514	.0526	.0538	.0550	.0563	.0576	.0590	.0603	.0617	.0632	.0646
11.4	.0522	.0534	.0546	.0559	.0572	.0585	.0599	.0613	.0627	.0642	.0657
11.6	.0530	.0542	.0555	.0568	.0581	.0594	.0608	.0622	.0637	.0652	.0667
11.8	.0538	.0551	.0563	.0576	.0590	.0604	.0618	.0632	.0647	.0662	.0677
12.0	.0546	.0559	.0572	.0585	.0599	.0613	.0627	.0642	.0657	.0672	.0688
12.2	.0555	.0568	.0581	.0595	.0608	.0623	.0637	.0652	.0667	.0683	.0698
12.4	.0564	.0577	.0590	.0604	.0618	.0632	.0647	.0662	.0677	.0693	.0709
12.6	.0572	.0586	.0599	.0613	.0627	.0642	.0657	.0672	.0688	.0704	.0720
12.8	.0581	.0595	.0609	.0623	.0637	.0652	.0667	.0683	.0699	.0715	.0731
13.0	.0590	.0604	.0618	.0632	.0647	.0662	.0677	.0693	.0709	.0726	.0743
13.2	.0599	.0613	.0627	.0642	.0657	.0672	.0688	.0704	.0720	.0737	.0754
13.4	.0608	.0623	.0637	.0652	.0667	.0683	.0699	.0715	.0731	.0748	.0766
13.6	.0618	.0632	.0647	.0662	.0677	.0693	.0709	.0726	.0743	.0760	.0778
13.8	.0627	.0642	.0657	.0672	.0688	.0704	.0720	.0737	.0754	.0772	.0790
14.0	.0637	.0652	.0667	.0683	.0698	.0715	.0731	.0748	.0766	.0784	.0802

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.40	6.41	6.42	6.43	6.44	6.45	6.46	6.47	6.48	6.49	6.50
14.0	.0637	.0652	.0667	.0683	.0698	.0715	.0731	.0748	.0766	.0784	.0802
14.2	.0647	.0662	.0677	.0693	.0709	.0726	.0742	.0760	.0777	.0796	.0814
14.4	.0657	.0672	.0688	.0704	.0720	.0737	.0754	.0771	.0789	.0808	.0827
14.6	.0667	.0682	.0698	.0714	.0731	.0748	.0765	.0783	.0801	.0820	.0839
14.8	.0677	.0693	.0709	.0725	.0742	.0759	.0777	.0795	.0814	.0833	.0852
15.0	.0687	.0703	.0720	.0736	.0753	.0771	.0789	.0807	.0826	.0845	.0865
15.2	.0698	.0714	.0731	.0748	.0765	.0783	.0801	.0820	.0839	.0858	.0878
15.4	.0708	.0725	.0742	.0759	.0777	.0795	.0813	.0832	.0851	.0871	.0891
15.6	.0719	.0736	.0753	.0770	.0788	.0807	.0825	.0845	.0864	.0884	.0905
15.8	.0730	.0747	.0764	.0782	.0800	.0819	.0838	.0857	.0877	.0898	.0919
16.0	.0741	.0758	.0776	.0794	.0812	.0831	.0851	.0870	.0891	.0911	.0933
16.2	.0752	.0770	.0788	.0806	.0825	.0844	.0864	.0884	.0904	.0925	.0947
16.4	.0764	.0781	.0799	.0818	.0837	.0857	.0877	.0897	.0918	.0939	.0961
16.6	.0775	.0793	.0812	.0830	.0850	.0870	.0890	.0910	.0932	.0953	.0976
16.8	.0787	.0805	.0824	.0843	.0863	.0883	.0903	.0924	.0946	.0968	.0990
17.0	.0799	.0817	.0836	.0856	.0876	.0896	.0917	.0938	.0960	.0982	.1005
17.2	.0811	.0829	.0849	.0868	.0889	.0909	.0931	.0952	.0974	.0997	.1020
17.4	.0823	.0842	.0861	.0881	.0902	.0923	.0944	.0966	.0989	.1012	.1035
17.6	.0835	.0854	.0874	.0895	.0915	.0937	.0959	.0981	.1004	.1027	.1051
17.8	.0847	.0867	.0887	.0908	.0929	.0951	.0973	.0996	.1019	.1042	.1067
18.0	.0860	.0880	.0901	.0922	.0943	.0965	.0987	.1010	.1034	.1058	.1083
18.2	.0873	.0893	.0914	.0935	.0957	.0979	.1002	.1025	.1049	.1074	.1099
18.4	.0886	.0907	.0928	.0949	.0971	.0994	.1017	.1041	.1065	.1090	.1115
18.6	.0899	.0920	.0941	.0963	.0986	.1009	.1032	.1056	.1081	.1106	.1132
18.8	.0912	.0934	.0955	.0978	.1000	.1024	.1048	.1072	.1097	.1122	.1148
19.0	.0926	.0948	.0970	.0992	.1015	.1039	.1063	.1088	.1113	.1139	.1166
19.2	.0940	.0962	.0984	.1007	.1030	.1054	.1079	.1104	.1130	.1156	.1183
19.4	.0954	.0976	.0999	.1022	.1046	.1070	.1095	.1120	.1146	.1173	.1200
19.6	.0968	.0990	.1013	.1037	.1061	.1086	.1111	.1137	.1163	.1190	.1218
19.8	.0982	.1005	.1028	.1052	.1077	.1102	.1127	.1154	.1180	.1208	.1236
20.0	.0996	.1020	.1043	.1068	.1092	.1118	.1144	.1170	.1198	.1226	.1254
20.2	.101	.103	.106	.108	.111	.113	.116	.119	.122	.124	.127
20.4	.103	.105	.107	.110	.112	.115	.118	.121	.123	.126	.129
20.6	.104	.107	.109	.112	.114	.117	.120	.122	.125	.128	.131
20.8	.106	.108	.111	.113	.116	.118	.121	.124	.127	.130	.133
21.0	.107	.110	.112	.115	.117	.120	.123	.126	.129	.132	.135

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.40	6.41	6.42	6.43	6.44	6.45	6.46	6.47	6.48	6.49	6.50
21.0	.107	.110	.112	.115	.117	.120	.123	.126	.129	.132	.135
21.2	.109	.111	.114	.116	.119	.122	.125	.128	.131	.134	.137
21.4	.110	.113	.116	.118	.121	.124	.127	.130	.133	.136	.139
21.6	.112	.115	.117	.120	.123	.126	.128	.131	.135	.138	.141
21.8	.114	.116	.119	.122	.124	.127	.130	.133	.136	.140	.143
22.0	.115	.118	.121	.123	.126	.129	.132	.135	.138	.142	.145
22.2	.117	.120	.122	.125	.128	.131	.134	.137	.140	.144	.147
22.4	.119	.121	.124	.127	.130	.133	.136	.139	.143	.146	.149
22.6	.120	.123	.126	.129	.132	.135	.138	.141	.145	.148	.151
22.8	.122	.125	.128	.131	.134	.137	.140	.143	.147	.150	.154
23.0	.124	.127	.130	.133	.136	.139	.142	.145	.149	.152	.156
23.2	.126	.128	.131	.135	.138	.141	.144	.147	.151	.154	.158
23.4	.127	.130	.133	.136	.140	.143	.146	.150	.153	.157	.160
23.6	.129	.132	.135	.138	.142	.145	.148	.152	.155	.159	.163
23.8	.131	.134	.137	.140	.144	.147	.150	.154	.158	.161	.165
24.0	.133	.136	.139	.142	.146	.149	.153	.156	.160	.163	.167
24.2	.135	.138	.141	.144	.148	.151	.155	.158	.162	.166	.170
24.4	.137	.140	.143	.147	.150	.153	.157	.161	.164	.168	.172
24.6	.139	.142	.145	.149	.152	.156	.159	.163	.167	.171	.175
24.8	.141	.144	.147	.151	.154	.158	.161	.165	.169	.173	.177
25.0	.143	.146	.149	.153	.156	.160	.164	.168	.171	.175	.180
25.2	.145	.148	.152	.155	.159	.162	.166	.170	.174	.178	.182
25.4	.147	.150	.154	.157	.161	.165	.168	.172	.176	.180	.185
25.6	.149	.152	.156	.159	.163	.167	.171	.175	.179	.183	.187
25.8	.151	.154	.158	.162	.165	.169	.173	.177	.181	.186	.190
26.0	.153	.157	.160	.164	.168	.172	.176	.180	.184	.188	.193
26.2	.155	.159	.163	.166	.170	.174	.178	.182	.187	.191	.195
26.4	.157	.161	.165	.169	.173	.177	.181	.185	.189	.194	.198
26.6	.160	.163	.167	.171	.175	.179	.183	.187	.192	.196	.201
26.8	.162	.166	.169	.173	.177	.182	.186	.190	.195	.199	.204
27.0	.164	.168	.172	.176	.180	.184	.188	.193	.197	.202	.207
27.2	.166	.170	.174	.178	.182	.187	.191	.195	.200	.205	.209
27.4	.169	.173	.177	.181	.185	.189	.194	.198	.203	.208	.212
27.6	.171	.175	.179	.183	.188	.192	.196	.201	.206	.210	.215
27.8	.174	.178	.182	.186	.190	.195	.199	.204	.209	.213	.218
28.0	.176	.180	.184	.188	.193	.197	.202	.207	.211	.216	.221

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.40	6.41	6.42	6.43	6.44	6.45	6.46	6.47	6.48	6.49	6.50
28.0	.176	.180	.184	.188	.193	.197	.202	.207	.211	.216	.221
28.2	.178	.183	.187	.191	.196	.200	.205	.210	.214	.219	.224
28.4	.181	.185	.189	.194	.198	.203	.208	.212	.217	.222	.228
28.6	.183	.188	.192	.196	.201	.206	.210	.215	.220	.226	.231
28.8	.186	.190	.195	.199	.204	.209	.213	.218	.223	.229	.234
29.0	.188	.193	.197	.202	.207	.211	.216	.221	.227	.232	.237
29.2	.191	.196	.200	.205	.209	.214	.219	.224	.230	.235	.240
29.4	.194	.198	.203	.208	.212	.217	.222	.228	.233	.238	.244
29.6	.196	.201	.206	.210	.215	.220	.225	.231	.236	.242	.247
29.8	.199	.204	.208	.213	.218	.223	.229	.234	.239	.245	.251
30.0	.202	.207	.211	.216	.221	.226	.232	.237	.243	.248	.254
30.2	.205	.209	.214	.219	.224	.230	.235	.240	.246	.252	.257
30.4	.207	.212	.217	.222	.227	.233	.238	.244	.249	.255	.261
30.6	.210	.215	.220	.225	.231	.236	.241	.247	.253	.259	.265
30.8	.213	.218	.223	.228	.234	.239	.245	.250	.256	.262	.268
31.0	.216	.221	.226	.231	.237	.242	.248	.254	.260	.266	.272
31.2	.219	.224	.229	.235	.240	.246	.251	.257	.263	.269	.276
31.4	.222	.227	.232	.238	.243	.249	.255	.261	.267	.273	.279
31.6	.225	.230	.236	.241	.247	.252	.258	.264	.270	.277	.283
31.8	.228	.233	.239	.244	.250	.256	.262	.268	.274	.280	.287
32.0	.231	.237	.242	.248	.253	.259	.265	.271	.278	.284	.291
32.2	.234	.240	.245	.251	.257	.263	.269	.275	.282	.288	.295
32.4	.237	.243	.249	.254	.260	.266	.273	.279	.285	.292	.299
32.6	.241	.246	.252	.258	.264	.270	.276	.283	.289	.296	.303
32.8	.244	.250	.255	.261	.267	.274	.280	.286	.293	.300	.307
33.0	.247	.253	.259	.265	.271	.277	.284	.290	.297	.304	.311
33.2	.251	.256	.262	.268	.275	.281	.288	.294	.301	.308	.315
33.4	.254	.260	.266	.272	.278	.285	.291	.298	.305	.312	.319
33.6	.257	.263	.269	.276	.282	.289	.295	.302	.309	.316	.324
33.8	.261	.267	.273	.279	.286	.292	.299	.306	.313	.321	.328
34.0	.264	.270	.277	.283	.290	.296	.303	.310	.317	.325	.332
34.2	.268	.274	.280	.287	.294	.300	.307	.314	.322	.329	.337
34.4	.271	.278	.284	.291	.297	.304	.311	.319	.326	.334	.341
34.6	.275	.281	.288	.295	.301	.308	.316	.323	.330	.338	.346
34.8	.279	.285	.292	.298	.305	.312	.320	.327	.335	.343	.350
35.0	.282	.289	.296	.302	.309	.317	.324	.332	.339	.347	.355

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.40	6.41	6.42	6.43	6.44	6.45	6.46	6.47	6.48	6.49	6.50
35.0	.282	.289	.296	.302	.309	.317	.324	.332	.339	.347	.355
35.2	.286	.293	.299	.306	.314	.321	.328	.336	.344	.352	.360
35.4	.290	.297	.303	.311	.318	.325	.333	.340	.348	.356	.365
35.6	.294	.300	.307	.315	.322	.329	.337	.345	.353	.361	.369
35.8	.298	.304	.312	.319	.326	.334	.341	.349	.358	.366	.374
36.0	.301	.308	.316	.323	.330	.338	.346	.354	.362	.371	.379
36.2	.305	.313	.320	.327	.335	.343	.351	.359	.367	.376	.384
36.4	.309	.317	.324	.332	.339	.347	.355	.363	.372	.380	.389
36.6	.314	.321	.328	.336	.344	.352	.360	.368	.377	.385	.394
36.8	.318	.325	.333	.340	.348	.356	.365	.373	.382	.391	.400
37.0	.322	.329	.337	.345	.353	.361	.369	.378	.387	.396	.405
37.2	.326	.334	.341	.349	.357	.366	.374	.383	.392	.401	.410
37.4	.330	.338	.346	.354	.362	.370	.379	.388	.397	.406	.415
37.6	.335	.342	.350	.358	.367	.375	.384	.393	.402	.411	.421
37.8	.339	.347	.355	.363	.372	.380	.389	.398	.407	.417	.426
38.0	.343	.351	.360	.368	.376	.385	.394	.403	.413	.422	.432
38.2	.348	.356	.364	.373	.381	.390	.399	.408	.418	.428	.438
38.4	.352	.361	.369	.378	.386	.395	.404	.414	.423	.433	.443
38.6	.357	.365	.374	.382	.391	.400	.410	.419	.429	.439	.449
38.8	.362	.370	.379	.387	.396	.406	.415	.425	.434	.444	.455
39.0	.366	.375	.383	.392	.401	.411	.420	.430	.440	.450	.461
39.2	.371	.380	.388	.397	.407	.416	.426	.436	.446	.456	.467
39.4	.376	.385	.393	.403	.412	.421	.431	.441	.451	.462	.473
39.6	.381	.389	.399	.408	.417	.427	.437	.447	.457	.468	.479
39.8	.386	.394	.404	.413	.423	.432	.442	.453	.463	.474	.485
40.0	.391	.400	.409	.418	.428	.438	.448	.458	.469	.480	.491

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.50	6.51	6.52	6.53	6.54	6.55	6.56	6.57	6.58	6.59	6.60
.0	.0261	.0267	.0274	.0280	.0287	.0293	.0300	.0307	.0314	.0322	.0329
.2	.0266	.0272	.0278	.0285	.0291	.0298	.0305	.0312	.0320	.0327	.0335
.4	.0270	.0277	.0283	.0290	.0296	.0303	.0310	.0318	.0325	.0333	.0340
.6	.0275	.0281	.0288	.0295	.0301	.0308	.0316	.0323	.0331	.0338	.0346
.8	.0280	.0286	.0293	.0300	.0307	.0314	.0321	.0328	.0336	.0344	.0352
1.0	.0284	.0291	.0298	.0305	.0312	.0319	.0326	.0334	.0342	.0350	.0358
1.2	.0289	.0296	.0303	.0310	.0317	.0324	.0332	.0340	.0348	.0356	.0364
1.4	.0294	.0301	.0308	.0315	.0322	.0330	.0337	.0345	.0353	.0362	.0370
1.6	.0299	.0306	.0313	.0320	.0328	.0335	.0343	.0351	.0359	.0368	.0376
1.8	.0304	.0311	.0318	.0326	.0333	.0341	.0349	.0357	.0365	.0374	.0383
2.0	.0309	.0316	.0324	.0331	.0339	.0347	.0355	.0363	.0371	.0380	.0389
2.2	.0314	.0321	.0329	.0337	.0344	.0352	.0361	.0369	.0378	.0386	.0395
2.4	.0319	.0327	.0334	.0342	.0350	.0358	.0367	.0375	.0384	.0393	.0402
2.6	.0325	.0332	.0340	.0348	.0356	.0364	.0373	.0381	.0390	.0399	.0409
2.8	.0330	.0338	.0346	.0354	.0362	.0370	.0379	.0388	.0397	.0406	.0416
3.0	.0336	.0343	.0351	.0360	.0368	.0377	.0385	.0394	.0403	.0413	.0422
3.2	.0341	.0349	.0357	.0366	.0374	.0383	.0392	.0401	.0410	.0420	.0429
3.4	.0347	.0355	.0363	.0372	.0380	.0389	.0398	.0407	.0417	.0427	.0437
3.6	.0353	.0361	.0369	.0378	.0387	.0396	.0405	.0414	.0424	.0434	.0444
3.8	.0358	.0367	.0375	.0384	.0393	.0402	.0411	.0421	.0431	.0441	.0451
4.0	.0364	.0373	.0381	.0390	.0399	.0409	.0418	.0428	.0438	.0448	.0459
4.2	.0370	.0379	.0388	.0397	.0406	.0415	.0425	.0435	.0445	.0455	.0466
4.4	.0376	.0385	.0394	.0403	.0413	.0422	.0432	.0442	.0452	.0463	.0474
4.6	.0383	.0391	.0401	.0410	.0419	.0429	.0439	.0449	.0460	.0471	.0482
4.8	.0389	.0398	.0407	.0417	.0426	.0436	.0446	.0457	.0467	.0478	.0489
5.0	.0395	.0404	.0414	.0423	.0433	.0443	.0454	.0464	.0475	.0486	.0497
5.2	.0402	.0411	.0421	.0430	.0440	.0451	.0461	.0472	.0483	.0494	.0506
5.4	.0408	.0418	.0427	.0437	.0448	.0458	.0469	.0480	.0491	.0502	.0514
5.6	.0415	.0425	.0434	.0445	.0455	.0465	.0476	.0487	.0499	.0510	.0522
5.8	.0422	.0431	.0441	.0452	.0462	.0473	.0484	.0495	.0507	.0519	.0531
6.0	.0428	.0438	.0449	.0459	.0470	.0481	.0492	.0503	.0515	.0527	.0539
6.2	.0435	.0446	.0456	.0467	.0477	.0489	.0500	.0512	.0523	.0536	.0548
6.4	.0442	.0453	.0463	.0474	.0485	.0496	.0508	.0520	.0532	.0544	.0557
6.6	.0450	.0460	.0471	.0482	.0493	.0504	.0516	.0528	.0541	.0553	.0566
6.8	.0457	.0468	.0478	.0490	.0501	.0513	.0525	.0537	.0549	.0562	.0575
7.0	.0464	.0475	.0486	.0497	.0509	.0521	.0533	.0545	.0558	.0571	.0584

TEMP DEG C	PH 6.50	6.51	6.52	6.53	6.54	6.55	6.56	6.57	6.58	6.59	6.60
7.0	.0464	.0475	.0486	.0497	.0509	.0521	.0533	.0545	.0558	.0571	.0584
7.2	.0472	.0483	.0494	.0506	.0517	.0529	.0542	.0554	.0567	.0580	.0594
7.4	.0479	.0491	.0502	.0514	.0526	.0538	.0550	.0563	.0576	.0590	.0603
7.6	.0487	.0498	.0510	.0522	.0534	.0546	.0559	.0572	.0586	.0599	.0613
7.8	.0495	.0506	.0518	.0530	.0543	.0555	.0568	.0581	.0595	.0609	.0623
8.0	.0503	.0515	.0527	.0539	.0551	.0564	.0577	.0591	.0604	.0619	.0633
8.2	.0511	.0523	.0535	.0547	.0560	.0573	.0587	.0600	.0614	.0628	.0643
8.4	.0519	.0531	.0543	.0556	.0569	.0582	.0596	.0610	.0624	.0638	.0653
8.6	.0527	.0540	.0552	.0565	.0578	.0592	.0605	.0619	.0634	.0649	.0664
8.8	.0536	.0548	.0561	.0574	.0587	.0601	.0615	.0629	.0644	.0659	.0674
9.0	.0544	.0557	.0570	.0583	.0597	.0611	.0625	.0639	.0654	.0669	.0685
9.2	.0553	.0566	.0579	.0592	.0606	.0620	.0635	.0650	.0665	.0680	.0696
9.4	.0562	.0575	.0588	.0602	.0616	.0630	.0645	.0660	.0675	.0691	.0707
9.6	.0571	.0584	.0597	.0611	.0626	.0640	.0655	.0670	.0686	.0702	.0718
9.8	.0580	.0593	.0607	.0621	.0635	.0650	.0665	.0681	.0697	.0713	.0730
10.0	.0589	.0602	.0616	.0631	.0646	.0661	.0676	.0692	.0708	.0724	.0741
10.2	.0598	.0612	.0626	.0641	.0656	.0671	.0687	.0703	.0719	.0736	.0753
10.4	.0607	.0622	.0636	.0651	.0666	.0682	.0697	.0714	.0730	.0747	.0765
10.6	.0617	.0631	.0646	.0661	.0676	.0692	.0708	.0725	.0742	.0759	.0777
10.8	.0627	.0641	.0656	.0671	.0687	.0703	.0719	.0736	.0753	.0771	.0789
11.0	.0637	.0651	.0667	.0682	.0698	.0714	.0731	.0748	.0765	.0783	.0801
11.2	.0646	.0662	.0677	.0693	.0709	.0725	.0742	.0759	.0777	.0795	.0814
11.4	.0657	.0672	.0688	.0704	.0720	.0737	.0754	.0771	.0789	.0808	.0826
11.6	.0667	.0682	.0698	.0715	.0731	.0748	.0766	.0783	.0802	.0820	.0839
11.8	.0677	.0693	.0709	.0726	.0743	.0760	.0778	.0796	.0814	.0833	.0852
12.0	.0688	.0704	.0720	.0737	.0754	.0772	.0790	.0808	.0827	.0846	.0866
12.2	.0698	.0715	.0731	.0748	.0766	.0784	.0802	.0821	.0840	.0859	.0879
12.4	.0709	.0726	.0743	.0760	.0778	.0796	.0814	.0833	.0853	.0873	.0893
12.6	.0720	.0737	.0754	.0772	.0790	.0808	.0827	.0846	.0866	.0886	.0907
12.8	.0731	.0749	.0766	.0784	.0802	.0821	.0840	.0859	.0879	.0900	.0921
13.0	.0743	.0760	.0778	.0796	.0814	.0833	.0853	.0873	.0893	.0914	.0935
13.2	.0754	.0772	.0790	.0808	.0827	.0846	.0866	.0886	.0907	.0928	.0949
13.4	.0766	.0784	.0802	.0821	.0840	.0859	.0879	.0900	.0921	.0942	.0964
13.6	.0778	.0796	.0814	.0833	.0853	.0873	.0893	.0914	.0935	.0957	.0979
13.8	.0790	.0808	.0827	.0846	.0866	.0886	.0907	.0928	.0949	.0971	.0994
14.0	.0802	.0820	.0840	.0859	.0879	.0900	.0920	.0942	.0964	.0986	.1009

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.50	6.51	6.52	6.53	6.54	6.55	6.56	6.57	6.58	6.59	6.60
14.0	.0802	.0820	.0840	.0859	.0879	.0900	.0920	.0942	.0964	.0986	.1009
14.2	.0814	.0833	.0852	.0872	.0893	.0913	.0935	.0956	.0979	.1001	.1025
14.4	.0827	.0846	.0865	.0886	.0906	.0927	.0949	.0971	.0994	.1017	.1040
14.6	.0839	.0859	.0879	.0899	.0920	.0941	.0963	.0986	.1009	.1032	.1056
14.8	.0852	.0872	.0892	.0913	.0934	.0956	.0978	.1001	.1024	.1048	.1072
15.0	.0865	.0885	.0906	.0927	.0948	.0970	.0993	.1016	.1040	.1064	.1089
15.2	.0878	.0899	.0919	.0941	.0963	.0985	.1008	.1032	.1056	.1080	.1105
15.4	.0891	.0912	.0933	.0955	.0977	.1000	.1023	.1047	.1072	.1097	.1122
15.6	.0905	.0926	.0948	.0970	.0992	.1015	.1039	.1063	.1088	.1113	.1139
15.8	.0919	.0940	.0962	.0984	.1007	.1031	.1055	.1079	.1104	.1130	.1156
16.0	.0933	.0954	.0977	.0999	.1023	.1046	.1071	.1096	.1121	.1147	.1174
16.2	.0947	.0969	.0991	.1014	.1038	.1062	.1087	.1112	.1138	.1165	.1192
16.4	.0961	.0983	.1006	.1030	.1054	.1078	.1103	.1129	.1155	.1182	.1210
16.6	.0976	.0998	.1021	.1045	.1070	.1094	.1120	.1146	.1173	.1200	.1228
16.8	.0990	.1013	.1037	.1061	.1086	.1111	.1137	.1163	.1190	.1218	.1246
17.0	.101	.103	.105	.108	.110	.113	.115	.118	.121	.124	.127
17.2	.102	.104	.107	.109	.112	.114	.117	.120	.123	.125	.128
17.4	.104	.106	.108	.111	.114	.116	.119	.122	.124	.127	.130
17.6	.105	.108	.110	.113	.115	.118	.121	.123	.126	.129	.132
17.8	.107	.109	.112	.114	.117	.120	.122	.125	.128	.131	.134
18.0	.108	.111	.113	.116	.119	.121	.124	.127	.130	.133	.136
18.2	.110	.112	.115	.118	.120	.123	.126	.129	.132	.135	.138
18.4	.112	.114	.117	.119	.122	.125	.128	.131	.134	.137	.140
18.6	.113	.116	.118	.121	.124	.127	.130	.133	.136	.139	.142
18.8	.115	.118	.120	.123	.126	.129	.132	.135	.138	.141	.145
19.0	.117	.119	.122	.125	.128	.131	.134	.137	.140	.143	.147
19.2	.118	.121	.124	.127	.130	.133	.136	.139	.142	.145	.149
19.4	.120	.123	.126	.129	.132	.135	.138	.141	.144	.148	.151
19.6	.122	.125	.128	.130	.134	.137	.140	.143	.146	.150	.153
19.8	.124	.126	.129	.132	.135	.139	.142	.145	.149	.152	.156
20.0	.125	.128	.131	.134	.137	.141	.144	.147	.151	.154	.158
20.2	.127	.130	.133	.136	.140	.143	.146	.149	.153	.157	.160
20.4	.129	.132	.135	.138	.142	.145	.148	.152	.155	.159	.163
20.6	.131	.134	.137	.140	.144	.147	.150	.154	.157	.161	.165
20.8	.133	.136	.139	.142	.146	.149	.153	.156	.160	.163	.167
21.0	.135	.138	.141	.145	.148	.151	.155	.158	.162	.166	.170

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.50	6.51	6.52	6.53	6.54	6.55	6.56	6.57	6.58	6.59	6.60
21.0	.135	.138	.141	.145	.148	.151	.155	.158	.162	.166	.170
21.2	.137	.140	.143	.147	.150	.154	.157	.161	.164	.168	.172
21.4	.139	.142	.145	.149	.152	.156	.159	.163	.167	.171	.175
21.6	.141	.144	.147	.151	.154	.158	.162	.165	.169	.173	.177
21.8	.143	.146	.150	.153	.157	.160	.164	.168	.172	.176	.180
22.0	.145	.148	.152	.155	.159	.163	.166	.170	.174	.178	.182
22.2	.147	.151	.154	.158	.161	.165	.169	.173	.177	.181	.185
22.4	.149	.153	.156	.160	.164	.167	.171	.175	.179	.184	.188
22.6	.151	.155	.158	.162	.166	.170	.174	.178	.182	.186	.190
22.8	.154	.157	.161	.165	.168	.172	.176	.180	.185	.189	.193
23.0	.156	.159	.163	.167	.171	.175	.179	.183	.187	.192	.196
23.2	.158	.162	.165	.169	.173	.177	.181	.186	.190	.194	.199
23.4	.160	.164	.168	.172	.176	.180	.184	.188	.193	.197	.202
23.6	.163	.166	.170	.174	.178	.182	.187	.191	.195	.200	.205
23.8	.165	.169	.173	.177	.181	.185	.189	.194	.198	.203	.208
24.0	.167	.171	.175	.179	.183	.188	.192	.196	.201	.206	.210
24.2	.170	.174	.178	.182	.186	.190	.195	.199	.204	.209	.214
24.4	.172	.176	.180	.184	.189	.193	.198	.202	.207	.212	.217
24.6	.175	.179	.183	.187	.191	.196	.200	.205	.210	.215	.220
24.8	.177	.181	.185	.190	.194	.199	.203	.208	.213	.218	.223
25.0	.180	.184	.188	.192	.197	.201	.206	.211	.216	.221	.226
25.2	.182	.186	.191	.195	.200	.204	.209	.214	.219	.224	.229
25.4	.185	.189	.193	.198	.202	.207	.212	.217	.222	.227	.232
25.6	.187	.192	.196	.201	.205	.210	.215	.220	.225	.230	.236
25.8	.190	.194	.199	.204	.208	.213	.218	.223	.228	.234	.239
26.0	.193	.197	.202	.206	.211	.216	.221	.226	.231	.237	.242
26.2	.195	.200	.205	.209	.214	.219	.224	.229	.235	.240	.246
26.4	.198	.203	.207	.212	.217	.222	.227	.233	.238	.244	.249
26.6	.201	.206	.210	.215	.220	.225	.231	.236	.241	.247	.253
26.8	.204	.208	.213	.218	.223	.228	.234	.239	.245	.250	.256
27.0	.207	.211	.216	.221	.226	.232	.237	.243	.248	.254	.260
27.2	.209	.214	.219	.224	.230	.235	.240	.246	.252	.258	.264
27.4	.212	.217	.222	.228	.233	.238	.244	.249	.255	.261	.267
27.6	.215	.220	.225	.231	.236	.242	.247	.253	.259	.265	.271
27.8	.218	.223	.229	.234	.239	.245	.251	.256	.262	.268	.275
28.0	.221	.227	.232	.237	.243	.248	.254	.260	.266	.272	.279

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.50	6.51	6.52	6.53	6.54	6.55	6.56	6.57	6.58	6.59	6.60
28.0	.221	.227	.232	.237	.243	.248	.254	.260	.266	.272	.279
28.2	.224	.230	.235	.240	.246	.252	.258	.264	.270	.276	.282
28.4	.228	.233	.238	.244	.249	.255	.261	.267	.273	.280	.286
28.6	.231	.236	.242	.247	.253	.259	.265	.271	.277	.284	.290
28.8	.234	.239	.245	.251	.256	.262	.269	.275	.281	.288	.294
29.0	.237	.243	.248	.254	.260	.266	.272	.279	.285	.292	.298
29.2	.240	.246	.252	.258	.264	.270	.276	.282	.289	.296	.303
29.4	.244	.249	.255	.261	.267	.273	.280	.286	.293	.300	.307
29.6	.247	.253	.259	.265	.271	.277	.284	.290	.297	.304	.311
29.8	.251	.256	.262	.268	.275	.281	.288	.294	.301	.308	.315
30.0	.254	.260	.266	.272	.278	.285	.291	.298	.305	.312	.320
30.2	.257	.263	.270	.276	.282	.289	.295	.302	.309	.317	.324
30.4	.261	.267	.273	.280	.286	.293	.300	.306	.314	.321	.328
30.6	.265	.271	.277	.283	.290	.297	.304	.311	.318	.325	.333
30.8	.268	.274	.281	.287	.294	.301	.308	.315	.322	.330	.337
31.0	.272	.278	.285	.291	.298	.305	.312	.319	.327	.334	.342
31.2	.276	.282	.288	.295	.302	.309	.316	.324	.331	.339	.347
31.4	.279	.286	.292	.299	.306	.313	.321	.328	.336	.343	.351
31.6	.283	.290	.296	.303	.310	.318	.325	.332	.340	.348	.356
31.8	.287	.294	.300	.307	.315	.322	.329	.337	.345	.353	.361
32.0	.291	.298	.304	.312	.319	.326	.334	.342	.349	.358	.366
32.2	.295	.302	.309	.316	.323	.331	.338	.346	.354	.362	.371
32.4	.299	.306	.313	.320	.327	.335	.343	.351	.359	.367	.376
32.6	.303	.310	.317	.324	.332	.340	.347	.356	.364	.372	.381
32.8	.307	.314	.321	.329	.336	.344	.352	.360	.369	.377	.386
33.0	.311	.318	.326	.333	.341	.349	.357	.365	.374	.382	.391
33.2	.315	.322	.330	.338	.345	.353	.362	.370	.379	.387	.396
33.4	.319	.327	.334	.342	.350	.358	.367	.375	.384	.393	.402
33.6	.324	.331	.339	.347	.355	.363	.371	.380	.389	.398	.407
33.8	.328	.336	.343	.351	.360	.368	.376	.385	.394	.403	.413
34.0	.332	.340	.348	.356	.364	.373	.381	.390	.399	.409	.418
34.2	.337	.345	.353	.361	.369	.378	.387	.396	.405	.414	.424
34.4	.341	.349	.357	.366	.374	.383	.392	.401	.410	.420	.429
34.6	.346	.354	.362	.371	.379	.388	.397	.406	.416	.425	.435
34.8	.350	.359	.367	.375	.384	.393	.402	.412	.421	.431	.441
35.0	.355	.363	.372	.380	.389	.398	.408	.417	.427	.437	.447

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.50	6.51	6.52	6.53	6.54	6.55	6.56	6.57	6.58	6.59	6.60
35.0	.355	.363	.372	.380	.389	.398	.408	.417	.427	.437	.447
35.2	.360	.368	.377	.385	.394	.404	.413	.423	.432	.442	.453
35.4	.365	.373	.382	.391	.400	.409	.418	.428	.438	.448	.459
35.6	.369	.378	.387	.396	.405	.414	.424	.434	.444	.454	.465
35.8	.374	.383	.392	.401	.410	.420	.430	.439	.450	.460	.471
36.0	.379	.388	.397	.406	.416	.425	.435	.445	.456	.466	.477
36.2	.384	.393	.402	.412	.421	.431	.441	.451	.462	.472	.483
36.4	.389	.398	.408	.417	.427	.437	.447	.457	.468	.479	.490
36.6	.394	.404	.413	.423	.432	.442	.453	.463	.474	.485	.496
36.8	.400	.409	.418	.428	.438	.448	.459	.469	.480	.491	.503
37.0	.405	.414	.424	.434	.444	.454	.465	.475	.486	.498	.509
37.2	.410	.420	.429	.439	.450	.460	.471	.482	.493	.504	.516
37.4	.415	.425	.435	.445	.455	.466	.477	.488	.499	.511	.523
37.6	.421	.431	.441	.451	.461	.472	.483	.494	.506	.517	.529
37.8	.426	.436	.446	.457	.467	.478	.489	.501	.512	.524	.536
38.0	.432	.442	.452	.463	.473	.484	.496	.507	.519	.531	.543
38.2	.438	.448	.458	.469	.480	.491	.502	.514	.526	.538	.550
38.4	.443	.454	.464	.475	.486	.497	.509	.520	.532	.545	.557
38.6	.449	.459	.470	.481	.492	.503	.515	.527	.539	.552	.565
38.8	.455	.465	.476	.487	.498	.510	.522	.534	.546	.559	.572
39.0	.461	.471	.482	.493	.505	.517	.529	.541	.553	.566	.579
39.2	.467	.477	.489	.500	.511	.523	.535	.548	.560	.573	.587
39.4	.473	.484	.495	.506	.518	.530	.542	.555	.568	.581	.594
39.6	.479	.490	.501	.513	.525	.537	.549	.562	.575	.588	.602
39.8	.485	.496	.508	.519	.531	.544	.556	.569	.582	.596	.610
40.0	.491	.502	.514	.526	.538	.551	.563	.577	.590	.604	.617

TEMP DEG C	PH 6.60	6.61	6.62	6.63	6.64	6.65	6.66	6.67	6.68	6.69	6.70
.0	.0329	.0337	.0345	.0353	.0361	.0369	.0378	.0387	.0396	.0405	.0414
.2	.0335	.0342	.0350	.0359	.0367	.0375	.0384	.0393	.0402	.0412	.0421
.4	.0340	.0348	.0356	.0365	.0373	.0382	.0391	.0400	.0409	.0419	.0428
.6	.0346	.0354	.0362	.0371	.0379	.0388	.0397	.0407	.0416	.0426	.0436
.8	.0352	.0360	.0368	.0377	.0386	.0395	.0404	.0413	.0423	.0433	.0443
1.0	.0358	.0366	.0375	.0383	.0392	.0401	.0411	.0420	.0430	.0440	.0450
1.2	.0364	.0372	.0381	.0390	.0399	.0408	.0418	.0427	.0437	.0448	.0458
1.4	.0370	.0379	.0387	.0396	.0406	.0415	.0425	.0435	.0445	.0455	.0466
1.6	.0376	.0385	.0394	.0403	.0412	.0422	.0432	.0442	.0452	.0463	.0474
1.8	.0383	.0391	.0401	.0410	.0419	.0429	.0439	.0449	.0460	.0471	.0482
2.0	.0389	.0398	.0407	.0417	.0426	.0436	.0447	.0457	.0468	.0478	.0490
2.2	.0395	.0405	.0414	.0424	.0434	.0444	.0454	.0465	.0475	.0486	.0498
2.4	.0402	.0411	.0421	.0431	.0441	.0451	.0462	.0472	.0483	.0495	.0506
2.6	.0409	.0418	.0428	.0438	.0448	.0459	.0469	.0480	.0491	.0503	.0514
2.8	.0416	.0425	.0435	.0445	.0456	.0466	.0477	.0488	.0500	.0511	.0523
3.0	.0422	.0432	.0442	.0453	.0463	.0474	.0485	.0496	.0508	.0520	.0532
3.2	.0429	.0439	.0450	.0460	.0471	.0482	.0493	.0505	.0516	.0528	.0541
3.4	.0437	.0447	.0457	.0468	.0479	.0490	.0501	.0513	.0525	.0537	.0550
3.6	.0444	.0454	.0465	.0475	.0487	.0498	.0509	.0521	.0533	.0546	.0559
3.8	.0451	.0462	.0472	.0483	.0495	.0506	.0518	.0530	.0542	.0555	.0568
4.0	.0459	.0469	.0480	.0491	.0503	.0514	.0526	.0539	.0551	.0564	.0577
4.2	.0466	.0477	.0488	.0499	.0511	.0523	.0535	.0548	.0560	.0573	.0587
4.4	.0474	.0485	.0496	.0508	.0519	.0532	.0544	.0557	.0570	.0583	.0596
4.6	.0482	.0493	.0504	.0516	.0528	.0540	.0553	.0566	.0579	.0592	.0606
4.8	.0489	.0501	.0512	.0524	.0537	.0549	.0562	.0575	.0588	.0602	.0616
5.0	.0497	.0509	.0521	.0533	.0545	.0558	.0571	.0584	.0598	.0612	.0626
5.2	.0506	.0517	.0529	.0542	.0554	.0567	.0580	.0594	.0608	.0622	.0636
5.4	.0514	.0526	.0538	.0551	.0563	.0577	.0590	.0604	.0618	.0632	.0647
5.6	.0522	.0534	.0547	.0560	.0573	.0586	.0600	.0614	.0628	.0642	.0657
5.8	.0531	.0543	.0556	.0569	.0582	.0595	.0609	.0623	.0638	.0653	.0668
6.0	.0539	.0552	.0565	.0578	.0591	.0605	.0619	.0634	.0648	.0663	.0679
6.2	.0548	.0561	.0574	.0587	.0601	.0615	.0629	.0644	.0659	.0674	.0690
6.4	.0557	.0570	.0583	.0597	.0611	.0625	.0639	.0654	.0670	.0685	.0701
6.6	.0566	.0579	.0593	.0606	.0621	.0635	.0650	.0665	.0680	.0696	.0712
6.8	.0575	.0589	.0602	.0616	.0631	.0645	.0660	.0676	.0691	.0708	.0724
7.0	.0584	.0598	.0612	.0626	.0641	.0656	.0671	.0687	.0703	.0719	.0736

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.60	6.61	6.62	6.63	6.64	6.65	6.66	6.67	6.68	6.69	6.70
7.0	.0584	.0598	.0612	.0626	.0641	.0656	.0671	.0687	.0703	.0719	.0736
7.2	.0594	.0608	.0622	.0636	.0651	.0666	.0682	.0698	.0714	.0731	.0748
7.4	.0603	.0617	.0632	.0647	.0662	.0677	.0693	.0709	.0725	.0742	.0760
7.6	.0613	.0627	.0642	.0657	.0672	.0688	.0704	.0720	.0737	.0754	.0772
7.8	.0623	.0637	.0652	.0667	.0683	.0699	.0715	.0732	.0749	.0766	.0784
8.0	.0633	.0648	.0663	.0678	.0694	.0710	.0727	.0744	.0761	.0779	.0797
8.2	.0643	.0658	.0673	.0689	.0705	.0721	.0738	.0755	.0773	.0791	.0809
8.4	.0653	.0669	.0684	.0700	.0716	.0733	.0750	.0768	.0785	.0804	.0822
8.6	.0664	.0679	.0695	.0711	.0728	.0745	.0762	.0780	.0798	.0816	.0835
8.8	.0674	.0690	.0706	.0723	.0739	.0757	.0774	.0792	.0811	.0829	.0849
9.0	.0685	.0701	.0717	.0734	.0751	.0769	.0786	.0805	.0824	.0843	.0862
9.2	.0696	.0712	.0729	.0746	.0763	.0781	.0799	.0818	.0837	.0856	.0876
9.4	.0707	.0723	.0740	.0758	.0775	.0793	.0812	.0831	.0850	.0870	.0890
9.6	.0718	.0735	.0752	.0770	.0787	.0806	.0824	.0844	.0863	.0883	.0904
9.8	.0730	.0747	.0764	.0782	.0800	.0818	.0838	.0857	.0877	.0897	.0918
10.0	.0741	.0758	.0776	.0794	.0813	.0831	.0851	.0871	.0891	.0912	.0933
10.2	.0753	.0770	.0788	.0807	.0825	.0845	.0864	.0884	.0905	.0926	.0947
10.4	.0765	.0782	.0801	.0819	.0838	.0858	.0878	.0898	.0919	.0941	.0962
10.6	.0777	.0795	.0813	.0832	.0852	.0871	.0892	.0912	.0934	.0955	.0978
10.8	.0789	.0807	.0826	.0845	.0865	.0885	.0906	.0927	.0948	.0970	.0993
11.0	.0801	.0820	.0839	.0858	.0878	.0899	.0920	.0941	.0963	.0986	.1008
11.2	.0814	.0833	.0852	.0872	.0892	.0913	.0934	.0956	.0978	.1001	.1024
11.4	.0826	.0846	.0865	.0886	.0906	.0927	.0949	.0971	.0993	.1017	.1040
11.6	.0839	.0859	.0879	.0899	.0920	.0942	.0964	.0986	.1009	.1032	.1056
11.8	.0852	.0872	.0893	.0913	.0935	.0956	.0979	.1001	.1025	.1049	.1073
12.0	.0866	.0886	.0907	.0928	.0949	.0971	.0994	.1017	.1041	.1065	.1090
12.2	.0879	.0900	.0921	.0942	.0964	.0986	.1009	.1033	.1057	.1081	.1107
12.4	.0893	.0914	.0935	.0957	.0979	.1002	.1025	.1049	.1073	.1098	.1124
12.6	.0907	.0928	.0949	.0971	.0994	.1017	.1041	.1065	.1090	.1115	.1141
12.8	.0921	.0942	.0964	.0987	.1009	.1033	.1057	.1082	.1107	.1132	.1159
13.0	.0935	.0957	.0979	.1002	.1025	.1049	.1073	.1098	.1124	.1150	.1177
13.2	.0949	.0971	.0994	.1017	.1041	.1065	.1090	.1115	.1141	.1168	.1195
13.4	.0964	.0986	.1009	.1033	.1057	.1082	.1107	.1132	.1159	.1186	.1213
13.6	.0979	.1002	.1025	.1049	.1073	.1098	.1124	.1150	.1177	.1204	.1232
13.8	.0994	.1017	.1041	.1065	.1090	.1115	.1141	.1168	.1195	.1223	.1251
14.0	.101	.103	.106	.108	.111	.113	.116	.119	.121	.124	.127

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.60	6.61	6.62	6.63	6.64	6.65	6.66	6.67	6.68	6.69	6.70
14.0	.101	.103	.106	.108	.111	.113	.116	.119	.121	.124	.127
14.2	.102	.105	.107	.110	.112	.115	.118	.120	.123	.126	.129
14.4	.104	.106	.109	.111	.114	.117	.119	.122	.125	.128	.131
14.6	.106	.108	.111	.113	.116	.118	.121	.124	.127	.130	.133
14.8	.107	.110	.112	.115	.118	.120	.123	.126	.129	.132	.135
15.0	.109	.111	.114	.117	.119	.122	.125	.128	.131	.134	.137
15.2	.111	.113	.116	.118	.121	.124	.127	.130	.133	.136	.139
15.4	.112	.115	.117	.120	.123	.126	.129	.132	.135	.138	.141
15.6	.114	.117	.119	.122	.125	.128	.131	.134	.137	.140	.143
15.8	.116	.118	.121	.124	.127	.130	.133	.136	.139	.142	.146
16.0	.117	.120	.123	.126	.129	.132	.135	.138	.141	.144	.148
16.2	.119	.122	.125	.128	.131	.134	.137	.140	.143	.147	.150
16.4	.121	.124	.127	.130	.133	.136	.139	.142	.145	.149	.152
16.6	.123	.126	.129	.132	.135	.138	.141	.144	.148	.151	.155
16.8	.125	.128	.130	.134	.137	.140	.143	.146	.150	.153	.157
17.0	.127	.129	.132	.136	.139	.142	.145	.149	.152	.156	.159
17.2	.128	.131	.134	.138	.141	.144	.147	.151	.154	.158	.162
17.4	.130	.133	.136	.140	.143	.146	.150	.153	.157	.160	.164
17.6	.132	.135	.138	.142	.145	.148	.152	.155	.159	.163	.166
17.8	.134	.137	.141	.144	.147	.151	.154	.158	.161	.165	.169
18.0	.136	.139	.143	.146	.149	.153	.156	.160	.164	.168	.171
18.2	.138	.142	.145	.148	.152	.155	.159	.162	.166	.170	.174
18.4	.140	.144	.147	.150	.154	.157	.161	.165	.169	.173	.177
18.6	.142	.146	.149	.153	.156	.160	.163	.167	.171	.175	.179
18.8	.145	.148	.151	.155	.158	.162	.166	.170	.174	.178	.182
19.0	.147	.150	.154	.157	.161	.165	.168	.172	.176	.180	.185
19.2	.149	.152	.156	.159	.163	.167	.171	.175	.179	.183	.187
19.4	.151	.155	.158	.162	.166	.169	.173	.177	.182	.186	.190
19.6	.153	.157	.160	.164	.168	.172	.176	.180	.184	.189	.193
19.8	.156	.159	.163	.167	.171	.174	.179	.183	.187	.191	.196
20.0	.158	.162	.165	.169	.173	.177	.181	.185	.190	.194	.199
20.2	.160	.164	.168	.172	.176	.180	.184	.188	.192	.197	.202
20.4	.163	.166	.170	.174	.178	.182	.187	.191	.195	.200	.204
20.6	.165	.169	.173	.177	.181	.185	.189	.194	.198	.203	.207
20.8	.167	.171	.175	.179	.183	.188	.192	.196	.201	.206	.211
21.0	.170	.174	.178	.182	.186	.190	.195	.199	.204	.209	.214

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.60	6.61	6.62	6.63	6.64	6.65	6.66	6.67	6.68	6.69	6.70
21.0	.170	.174	.178	.182	.186	.190	.195	.199	.204	.209	.214
21.2	.172	.176	.180	.185	.189	.193	.198	.202	.207	.212	.217
21.4	.175	.179	.183	.187	.192	.196	.201	.205	.210	.215	.220
21.6	.177	.181	.186	.190	.194	.199	.203	.208	.213	.218	.223
21.8	.180	.184	.188	.193	.197	.202	.206	.211	.216	.221	.226
22.0	.182	.187	.191	.195	.200	.205	.209	.214	.219	.224	.230
22.2	.185	.189	.194	.198	.203	.208	.212	.217	.222	.228	.233
22.4	.188	.192	.197	.201	.206	.211	.216	.221	.226	.231	.236
22.6	.190	.195	.199	.204	.209	.214	.219	.224	.229	.234	.240
22.8	.193	.198	.202	.207	.212	.217	.222	.227	.232	.238	.243
23.0	.196	.201	.205	.210	.215	.220	.225	.230	.236	.241	.247
23.2	.199	.203	.208	.213	.218	.223	.228	.234	.239	.245	.250
23.4	.202	.206	.211	.216	.221	.226	.232	.237	.242	.248	.254
23.6	.205	.209	.214	.219	.224	.230	.235	.240	.246	.252	.257
23.8	.208	.212	.217	.222	.228	.233	.238	.244	.249	.255	.261
24.0	.210	.215	.220	.226	.231	.236	.242	.247	.253	.259	.265
24.2	.214	.218	.224	.229	.234	.239	.245	.251	.257	.263	.269
24.4	.217	.222	.227	.232	.237	.243	.249	.254	.260	.266	.272
24.6	.220	.225	.230	.235	.241	.246	.252	.258	.264	.270	.276
24.8	.223	.228	.233	.239	.244	.250	.256	.262	.268	.274	.280
25.0	.226	.231	.237	.242	.248	.253	.259	.265	.272	.278	.284
25.2	.229	.234	.240	.245	.251	.257	.263	.269	.275	.282	.288
25.4	.232	.238	.243	.249	.255	.261	.267	.273	.279	.286	.292
25.6	.236	.241	.247	.252	.258	.264	.270	.277	.283	.290	.297
25.8	.239	.245	.250	.256	.262	.268	.274	.281	.287	.294	.301
26.0	.242	.248	.254	.260	.266	.272	.278	.285	.291	.298	.305
26.2	.246	.252	.257	.263	.269	.276	.282	.289	.295	.302	.309
26.4	.249	.255	.261	.267	.273	.280	.286	.293	.300	.306	.314
26.6	.253	.259	.265	.271	.277	.284	.290	.297	.304	.311	.318
26.8	.256	.262	.268	.275	.281	.287	.294	.301	.308	.315	.322
27.0	.260	.266	.272	.278	.285	.292	.298	.305	.312	.320	.327
27.2	.264	.270	.276	.282	.289	.296	.302	.309	.317	.324	.332
27.4	.267	.273	.280	.286	.293	.300	.307	.314	.321	.329	.336
27.6	.271	.277	.284	.290	.297	.304	.311	.318	.326	.333	.341
27.8	.275	.281	.288	.294	.301	.308	.315	.323	.330	.338	.346
28.0	.279	.285	.292	.298	.305	.312	.320	.327	.335	.342	.350

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.60	6.61	6.62	6.63	6.64	6.65	6.66	6.67	6.68	6.69	6.70
28.0	.279	.285	.292	.298	.305	.312	.320	.327	.335	.342	.350
28.2	.282	.289	.296	.303	.310	.317	.324	.332	.339	.347	.355
28.4	.286	.293	.300	.307	.314	.321	.329	.336	.344	.352	.360
28.6	.290	.297	.304	.311	.318	.326	.333	.341	.349	.357	.365
28.8	.294	.301	.308	.315	.323	.330	.338	.346	.354	.362	.370
29.0	.298	.305	.312	.320	.327	.335	.342	.350	.359	.367	.375
29.2	.303	.310	.317	.324	.332	.339	.347	.355	.363	.372	.381
29.4	.307	.314	.321	.329	.336	.344	.352	.360	.369	.377	.386
29.6	.311	.318	.326	.333	.341	.349	.357	.365	.374	.382	.391
29.8	.315	.323	.330	.338	.346	.354	.362	.370	.379	.387	.396
30.0	.320	.327	.335	.342	.350	.358	.367	.375	.384	.393	.402
30.2	.324	.331	.339	.347	.355	.363	.372	.380	.389	.398	.407
30.4	.328	.336	.344	.352	.360	.368	.377	.386	.394	.404	.413
30.6	.333	.341	.348	.357	.365	.373	.382	.391	.400	.409	.419
30.8	.337	.345	.353	.361	.370	.378	.387	.396	.405	.415	.424
31.0	.342	.350	.358	.366	.375	.384	.392	.402	.411	.420	.430
31.2	.347	.355	.363	.371	.380	.389	.398	.407	.416	.426	.436
31.4	.351	.360	.368	.376	.385	.394	.403	.413	.422	.432	.442
31.6	.356	.364	.373	.381	.390	.399	.409	.418	.428	.438	.448
31.8	.361	.369	.378	.387	.396	.405	.414	.424	.434	.444	.454
32.0	.366	.374	.383	.392	.401	.410	.420	.430	.440	.450	.460
32.2	.371	.379	.388	.397	.406	.416	.425	.435	.445	.456	.466
32.4	.376	.385	.393	.403	.412	.421	.431	.441	.451	.462	.473
32.6	.381	.390	.399	.408	.417	.427	.437	.447	.458	.468	.479
32.8	.386	.395	.404	.413	.423	.433	.443	.453	.464	.474	.485
33.0	.391	.400	.410	.419	.429	.439	.449	.459	.470	.481	.492
33.2	.396	.406	.415	.425	.435	.445	.455	.465	.476	.487	.499
33.4	.402	.411	.421	.430	.440	.451	.461	.472	.483	.494	.505
33.6	.407	.417	.426	.436	.446	.457	.467	.478	.489	.500	.512
33.8	.413	.422	.432	.442	.452	.463	.473	.484	.496	.507	.519
34.0	.418	.428	.438	.448	.458	.469	.480	.491	.502	.514	.526
34.2	.424	.434	.444	.454	.464	.475	.486	.497	.509	.521	.533
34.4	.429	.439	.449	.460	.471	.481	.493	.504	.516	.528	.540
34.6	.435	.445	.455	.466	.477	.488	.499	.511	.523	.535	.547
34.8	.441	.451	.462	.472	.483	.494	.506	.518	.530	.542	.554
35.0	.447	.457	.468	.478	.490	.501	.513	.524	.537	.549	.562

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.60	6.61	6.62	6.63	6.64	6.65	6.66	6.67	6.68	6.69	6.70
35.0	.447	.457	.468	.478	.490	.501	.513	.524	.537	.549	.562
35.2	.453	.463	.474	.485	.496	.508	.519	.531	.544	.556	.569
35.4	.459	.469	.480	.491	.503	.514	.526	.538	.551	.564	.577
35.6	.465	.475	.486	.498	.509	.521	.533	.545	.558	.571	.584
35.8	.471	.482	.493	.504	.516	.528	.540	.553	.565	.579	.592
36.0	.477	.488	.499	.511	.523	.535	.547	.560	.573	.586	.600
36.2	.483	.494	.506	.518	.530	.542	.554	.567	.580	.594	.608
36.4	.490	.501	.513	.524	.537	.549	.562	.575	.588	.602	.616
36.6	.496	.508	.519	.531	.544	.556	.569	.582	.596	.610	.624
36.8	.503	.514	.526	.538	.551	.564	.577	.590	.604	.618	.632
37.0	.509	.521	.533	.545	.558	.571	.584	.598	.611	.626	.640
37.2	.516	.528	.540	.552	.565	.578	.592	.605	.619	.634	.648
37.4	.523	.535	.547	.560	.573	.586	.599	.613	.628	.642	.657
37.6	.529	.542	.554	.567	.580	.594	.607	.621	.636	.650	.665
37.8	.536	.549	.561	.574	.588	.601	.615	.629	.644	.659	.674
38.0	.543	.556	.569	.582	.595	.609	.623	.638	.652	.667	.683
38.2	.550	.563	.576	.589	.603	.617	.631	.646	.661	.676	.692
38.4	.557	.570	.583	.597	.611	.625	.639	.654	.669	.685	.701
38.6	.565	.578	.591	.605	.619	.633	.648	.663	.678	.694	.710
38.8	.572	.585	.599	.613	.627	.641	.656	.671	.687	.703	.719
39.0	.579	.593	.606	.620	.635	.649	.665	.680	.696	.712	.728
39.2	.587	.600	.614	.628	.643	.658	.673	.689	.705	.721	.738
39.4	.594	.608	.622	.637	.651	.666	.682	.698	.714	.730	.747
39.6	.602	.616	.630	.645	.660	.675	.691	.706	.723	.740	.757
39.8	.610	.624	.638	.653	.668	.684	.699	.716	.732	.749	.766
40.0	.617	.632	.646	.661	.677	.692	.708	.725	.741	.759	.776

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.70	6.71	6.72	6.73	6.74	6.75	6.76	6.77	6.78	6.79	6.80
.0	.0414	.0424	.0434	.0444	.0454	.0465	.0476	.0487	.0498	.0510	.0521
.2	.0421	.0431	.0441	.0451	.0462	.0473	.0484	.0495	.0506	.0518	.0530
.4	.0428	.0438	.0449	.0459	.0470	.0481	.0492	.0503	.0515	.0527	.0539
.6	.0436	.0446	.0456	.0467	.0478	.0489	.0500	.0512	.0524	.0536	.0548
.8	.0443	.0453	.0464	.0475	.0486	.0497	.0509	.0520	.0533	.0545	.0558
1.0	.0450	.0461	.0472	.0483	.0494	.0505	.0517	.0529	.0542	.0554	.0567
1.2	.0458	.0469	.0480	.0491	.0502	.0514	.0526	.0538	.0551	.0563	.0577
1.4	.0466	.0477	.0488	.0499	.0511	.0523	.0535	.0547	.0560	.0573	.0586
1.6	.0474	.0485	.0496	.0507	.0519	.0531	.0544	.0556	.0569	.0583	.0596
1.8	.0482	.0493	.0504	.0516	.0528	.0540	.0553	.0566	.0579	.0592	.0606
2.0	.0490	.0501	.0513	.0525	.0537	.0549	.0562	.0575	.0589	.0602	.0616
2.2	.0498	.0509	.0521	.0533	.0546	.0558	.0571	.0585	.0598	.0612	.0627
2.4	.0506	.0518	.0530	.0542	.0555	.0568	.0581	.0595	.0608	.0623	.0637
2.6	.0514	.0526	.0539	.0551	.0564	.0577	.0591	.0604	.0618	.0633	.0648
2.8	.0523	.0535	.0548	.0560	.0573	.0587	.0600	.0614	.0629	.0643	.0658
3.0	.0532	.0544	.0557	.0570	.0583	.0597	.0610	.0625	.0639	.0654	.0669
3.2	.0541	.0553	.0566	.0579	.0593	.0606	.0621	.0635	.0650	.0665	.0680
3.4	.0550	.0562	.0575	.0589	.0603	.0617	.0631	.0646	.0661	.0676	.0692
3.6	.0559	.0572	.0585	.0599	.0612	.0627	.0641	.0656	.0672	.0687	.0703
3.8	.0568	.0581	.0595	.0608	.0623	.0637	.0652	.0667	.0683	.0698	.0715
4.0	.0577	.0591	.0604	.0618	.0633	.0648	.0663	.0678	.0694	.0710	.0727
4.2	.0587	.0600	.0614	.0629	.0643	.0658	.0674	.0689	.0705	.0722	.0739
4.4	.0596	.0610	.0624	.0639	.0654	.0669	.0685	.0701	.0717	.0734	.0751
4.6	.0606	.0620	.0635	.0649	.0665	.0680	.0696	.0712	.0729	.0746	.0763
4.8	.0616	.0630	.0645	.0660	.0675	.0691	.0707	.0724	.0741	.0758	.0775
5.0	.0626	.0641	.0656	.0671	.0687	.0703	.0719	.0736	.0753	.0770	.0788
5.2	.0636	.0651	.0666	.0682	.0698	.0714	.0731	.0748	.0765	.0783	.0801
5.4	.0647	.0662	.0677	.0693	.0709	.0726	.0743	.0760	.0778	.0796	.0814
5.6	.0657	.0673	.0688	.0704	.0721	.0737	.0755	.0772	.0790	.0809	.0827
5.8	.0668	.0684	.0700	.0716	.0732	.0750	.0767	.0785	.0803	.0822	.0841
6.0	.0679	.0695	.0711	.0727	.0744	.0762	.0779	.0798	.0816	.0835	.0855
6.2	.0690	.0706	.0722	.0739	.0756	.0774	.0792	.0811	.0829	.0849	.0868
6.4	.0701	.0717	.0734	.0751	.0769	.0787	.0805	.0824	.0843	.0862	.0882
6.6	.0712	.0729	.0746	.0763	.0781	.0799	.0818	.0837	.0856	.0876	.0897
6.8	.0724	.0741	.0758	.0776	.0794	.0812	.0831	.0850	.0870	.0891	.0911
7.0	.0736	.0753	.0770	.0788	.0807	.0825	.0845	.0864	.0884	.0905	.0926

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.70	6.71	6.72	6.73	6.74	6.75	6.76	6.77	6.78	6.79	6.80
7.0	.0736	.0753	.0770	.0788	.0807	.0825	.0845	.0864	.0884	.0905	.0926
7.2	.0748	.0765	.0783	.0801	.0820	.0839	.0858	.0878	.0899	.0919	.0941
7.4	.0760	.0777	.0795	.0814	.0833	.0852	.0872	.0892	.0913	.0934	.0956
7.6	.0772	.0790	.0808	.0827	.0846	.0866	.0886	.0907	.0928	.0949	.0971
7.8	.0784	.0802	.0821	.0840	.0860	.0880	.0900	.0921	.0943	.0965	.0987
8.0	.0797	.0815	.0834	.0854	.0873	.0894	.0915	.0936	.0958	.0980	.1003
8.2	.0809	.0828	.0848	.0867	.0887	.0908	.0929	.0951	.0973	.0996	.1019
8.4	.0822	.0842	.0861	.0881	.0902	.0923	.0944	.0966	.0989	.1012	.1035
8.6	.0835	.0855	.0875	.0895	.0916	.0937	.0959	.0981	.1004	.1028	.1052
8.8	.0849	.0869	.0889	.0909	.0931	.0952	.0974	.0997	.1020	.1044	.1068
9.0	.0862	.0882	.0903	.0924	.0945	.0967	.0990	.1013	.1037	.1061	.1085
9.2	.0876	.0896	.0917	.0939	.0960	.0983	.1006	.1029	.1053	.1077	.1103
9.4	.0890	.0911	.0932	.0953	.0976	.0998	.1022	.1045	.1070	.1095	.1120
9.6	.0904	.0925	.0947	.0969	.0991	.1014	.1038	.1062	.1087	.1112	.1138
9.8	.0918	.0940	.0962	.0984	.1007	.1030	.1054	.1079	.1104	.1129	.1156
10.0	.0933	.0954	.0977	.0999	.1023	.1046	.1071	.1096	.1121	.1147	.1174
10.2	.0947	.0970	.0992	.1015	.1039	.1063	.1088	.1113	.1139	.1165	.1193
10.4	.0962	.0985	.1008	.1031	.1055	.1080	.1105	.1131	.1157	.1184	.1211
10.6	.0978	.1000	.1024	.1047	.1072	.1097	.1122	.1148	.1175	.1202	.1230
10.8	.0993	.1016	.1040	.1064	.1089	.1114	.1140	.1166	.1193	.1221	.1250
11.0	.101	.103	.106	.108	.111	.113	.116	.118	.121	.124	.127
11.2	.102	.105	.107	.110	.112	.115	.118	.120	.123	.126	.129
11.4	.104	.106	.109	.111	.114	.117	.119	.122	.125	.128	.131
11.6	.106	.108	.111	.113	.116	.119	.121	.124	.127	.130	.133
11.8	.107	.110	.112	.115	.118	.120	.123	.126	.129	.132	.135
12.0	.109	.112	.114	.117	.119	.122	.125	.128	.131	.134	.137
12.2	.111	.113	.116	.119	.121	.124	.127	.130	.133	.136	.139
12.4	.112	.115	.118	.120	.123	.126	.129	.132	.135	.138	.141
12.6	.114	.117	.119	.122	.125	.128	.131	.134	.137	.140	.144
12.8	.116	.119	.121	.124	.127	.130	.133	.136	.139	.143	.146
13.0	.118	.120	.123	.126	.129	.132	.135	.138	.141	.145	.148
13.2	.119	.122	.125	.128	.131	.134	.137	.140	.144	.147	.150
13.4	.121	.124	.127	.130	.133	.136	.139	.143	.146	.149	.153
13.6	.123	.126	.129	.132	.135	.138	.141	.145	.148	.152	.155
13.8	.125	.128	.131	.134	.137	.140	.144	.147	.150	.154	.157
14.0	.127	.130	.133	.136	.139	.142	.146	.149	.153	.156	.160

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.70	6.71	6.72	6.73	6.74	6.75	6.76	6.77	6.78	6.79	6.80
14.0	.127	.130	.133	.136	.139	.142	.146	.149	.153	.156	.160
14.2	.129	.132	.135	.138	.141	.145	.148	.151	.155	.159	.162
14.4	.131	.134	.137	.140	.144	.147	.150	.154	.157	.161	.165
14.6	.133	.136	.139	.142	.146	.149	.153	.156	.160	.163	.167
14.8	.135	.138	.141	.145	.148	.151	.155	.159	.162	.166	.170
15.0	.137	.140	.143	.147	.150	.154	.157	.161	.165	.169	.172
15.2	.139	.142	.146	.149	.153	.156	.160	.163	.167	.171	.175
15.4	.141	.145	.148	.151	.155	.158	.162	.166	.170	.174	.178
15.6	.143	.147	.150	.154	.157	.161	.165	.168	.172	.176	.180
15.8	.146	.149	.152	.156	.160	.163	.167	.171	.175	.179	.183
16.0	.148	.151	.155	.158	.162	.166	.170	.174	.178	.182	.186
16.2	.150	.153	.157	.161	.164	.168	.172	.176	.180	.184	.189
16.4	.152	.156	.159	.163	.167	.171	.175	.179	.183	.187	.192
16.6	.155	.158	.162	.166	.169	.173	.177	.181	.186	.190	.194
16.8	.157	.160	.164	.168	.172	.176	.180	.184	.189	.193	.197
17.0	.159	.163	.167	.171	.175	.179	.183	.187	.191	.196	.200
17.2	.162	.165	.169	.173	.177	.181	.185	.190	.194	.199	.203
17.4	.164	.168	.172	.176	.180	.184	.188	.193	.197	.202	.206
17.6	.166	.170	.174	.178	.182	.187	.191	.196	.200	.205	.209
17.8	.169	.173	.177	.181	.185	.190	.194	.198	.203	.208	.213
18.0	.171	.175	.180	.184	.188	.192	.197	.201	.206	.211	.216
18.2	.174	.178	.182	.186	.191	.195	.200	.204	.209	.214	.219
18.4	.177	.181	.185	.189	.194	.198	.203	.207	.212	.217	.222
18.6	.179	.183	.188	.192	.196	.201	.206	.211	.215	.220	.226
18.8	.182	.186	.190	.195	.199	.204	.209	.214	.219	.224	.229
19.0	.185	.189	.193	.198	.202	.207	.212	.217	.222	.227	.232
19.2	.187	.192	.196	.201	.205	.210	.215	.220	.225	.230	.236
19.4	.190	.195	.199	.204	.208	.213	.218	.223	.228	.234	.239
19.6	.193	.197	.202	.207	.211	.216	.221	.227	.232	.237	.243
19.8	.196	.200	.205	.210	.215	.220	.225	.230	.235	.241	.246
20.0	.199	.203	.208	.213	.218	.223	.228	.233	.239	.244	.250
20.2	.202	.206	.211	.216	.221	.226	.231	.237	.242	.248	.254
20.4	.204	.209	.214	.219	.224	.229	.235	.240	.246	.251	.257
20.6	.207	.212	.217	.222	.227	.233	.238	.244	.249	.255	.261
20.8	.211	.215	.220	.226	.231	.236	.242	.247	.253	.259	.265
21.0	.214	.219	.224	.229	.234	.240	.245	.251	.257	.263	.269

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.70	6.71	6.72	6.73	6.74	6.75	6.76	6.77	6.78	6.79	6.80
21.0	.214	.219	.224	.229	.234	.240	.245	.251	.257	.263	.269
21.2	.217	.222	.227	.232	.238	.243	.249	.255	.260	.266	.273
21.4	.220	.225	.230	.236	.241	.247	.252	.258	.264	.270	.277
21.6	.223	.228	.234	.239	.245	.250	.256	.262	.268	.274	.281
21.8	.226	.232	.237	.242	.248	.254	.260	.266	.272	.278	.285
22.0	.230	.235	.240	.246	.252	.258	.264	.270	.276	.282	.289
22.2	.233	.238	.244	.250	.255	.261	.267	.274	.280	.286	.293
22.4	.236	.242	.247	.253	.259	.265	.271	.277	.284	.291	.297
22.6	.240	.245	.251	.257	.263	.269	.275	.281	.288	.295	.302
22.8	.243	.249	.255	.260	.267	.273	.279	.286	.292	.299	.306
23.0	.247	.252	.258	.264	.270	.277	.283	.290	.296	.303	.310
23.2	.250	.256	.262	.268	.274	.281	.287	.294	.301	.308	.315
23.4	.254	.260	.266	.272	.278	.285	.291	.298	.305	.312	.319
23.6	.257	.263	.270	.276	.282	.289	.295	.302	.309	.317	.324
23.8	.261	.267	.273	.280	.286	.293	.300	.307	.314	.321	.329
24.0	.265	.271	.277	.284	.290	.297	.304	.311	.318	.326	.333
24.2	.269	.275	.281	.288	.294	.301	.308	.315	.323	.330	.338
24.4	.272	.279	.285	.292	.299	.306	.313	.320	.327	.335	.343
24.6	.276	.283	.289	.296	.303	.310	.317	.325	.332	.340	.348
24.8	.280	.287	.293	.300	.307	.314	.322	.329	.337	.345	.353
25.0	.284	.291	.298	.305	.312	.319	.326	.334	.342	.349	.358
25.2	.288	.295	.302	.309	.316	.323	.331	.339	.346	.354	.363
25.4	.292	.299	.306	.313	.321	.328	.336	.343	.351	.359	.368
25.6	.297	.303	.310	.318	.325	.333	.340	.348	.356	.365	.373
25.8	.301	.308	.315	.322	.330	.337	.345	.353	.361	.370	.378
26.0	.305	.312	.319	.327	.334	.342	.350	.358	.366	.375	.384
26.2	.309	.316	.324	.331	.339	.347	.355	.363	.372	.380	.389
26.4	.314	.321	.328	.336	.344	.352	.360	.368	.377	.386	.394
26.6	.318	.325	.333	.341	.349	.357	.365	.373	.382	.391	.400
26.8	.322	.330	.338	.345	.353	.362	.370	.379	.387	.396	.406
27.0	.327	.335	.342	.350	.358	.367	.375	.384	.393	.402	.411
27.2	.332	.339	.347	.355	.363	.372	.380	.389	.398	.408	.417
27.4	.336	.344	.352	.360	.368	.377	.386	.395	.404	.413	.423
27.6	.341	.349	.357	.365	.374	.382	.391	.400	.410	.419	.429
27.8	.346	.354	.362	.370	.379	.388	.397	.406	.415	.425	.435
28.0	.350	.359	.367	.375	.384	.393	.402	.411	.421	.431	.441

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.70	6.71	6.72	6.73	6.74	6.75	6.76	6.77	6.78	6.79	6.80
28.0	.350	.359	.367	.375	.384	.393	.402	.411	.421	.431	.441
28.2	.355	.364	.372	.381	.389	.398	.408	.417	.427	.437	.447
28.4	.360	.369	.377	.386	.395	.404	.413	.423	.433	.443	.453
28.6	.365	.374	.382	.391	.400	.410	.419	.429	.439	.449	.459
28.8	.370	.379	.388	.397	.406	.415	.425	.435	.445	.455	.466
29.0	.375	.384	.393	.402	.411	.421	.431	.441	.451	.461	.472
29.2	.381	.389	.398	.408	.417	.427	.437	.447	.457	.468	.479
29.4	.386	.395	.404	.413	.423	.433	.443	.453	.463	.474	.485
29.6	.391	.400	.409	.419	.429	.439	.449	.459	.470	.481	.492
29.8	.396	.406	.415	.425	.435	.445	.455	.466	.476	.487	.499
30.0	.402	.411	.421	.431	.441	.451	.461	.472	.483	.494	.505
30.2	.407	.417	.427	.436	.447	.457	.468	.478	.489	.501	.512
30.4	.413	.423	.432	.442	.453	.463	.474	.485	.496	.508	.519
30.6	.419	.428	.438	.448	.459	.469	.480	.492	.503	.515	.526
30.8	.424	.434	.444	.455	.465	.476	.487	.498	.510	.522	.534
31.0	.430	.440	.450	.461	.471	.482	.494	.505	.517	.529	.541
31.2	.436	.446	.456	.467	.478	.489	.500	.512	.524	.536	.548
31.4	.442	.452	.463	.473	.484	.496	.507	.519	.531	.543	.556
31.6	.448	.458	.469	.480	.491	.502	.514	.526	.538	.550	.563
31.8	.454	.465	.475	.486	.498	.509	.521	.533	.545	.558	.571
32.0	.460	.471	.482	.493	.504	.516	.528	.540	.553	.565	.579
32.2	.466	.477	.488	.500	.511	.523	.535	.547	.560	.573	.586
32.4	.473	.484	.495	.506	.518	.530	.542	.555	.568	.581	.594
32.6	.479	.490	.501	.513	.525	.537	.550	.562	.575	.589	.602
32.8	.485	.497	.508	.520	.532	.544	.557	.570	.583	.597	.610
33.0	.492	.503	.515	.527	.539	.552	.564	.578	.591	.605	.619
33.2	.499	.510	.522	.534	.546	.559	.572	.585	.599	.613	.627
33.4	.505	.517	.529	.541	.554	.567	.580	.593	.607	.621	.635
33.6	.512	.524	.536	.548	.561	.574	.587	.601	.615	.629	.644
33.8	.519	.531	.543	.556	.569	.582	.595	.609	.623	.638	.652
34.0	.526	.538	.550	.563	.576	.590	.603	.617	.631	.646	.661
34.2	.533	.545	.558	.571	.584	.597	.611	.625	.640	.655	.670
34.4	.540	.552	.565	.578	.592	.605	.619	.634	.648	.663	.679
34.6	.547	.560	.573	.586	.600	.613	.628	.642	.657	.672	.688
34.8	.554	.567	.580	.594	.607	.622	.636	.651	.666	.681	.697
35.0	.562	.575	.588	.602	.616	.630	.644	.659	.675	.690	.706

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.70	6.71	6.72	6.73	6.74	6.75	6.76	6.77	6.78	6.79	6.80
35.0	.562	.575	.588	.602	.616	.630	.644	.659	.675	.690	.706
35.2	.569	.582	.596	.610	.624	.638	.653	.668	.683	.699	.715
35.4	.577	.590	.604	.618	.632	.647	.662	.677	.692	.708	.725
35.6	.584	.598	.612	.626	.640	.655	.670	.686	.702	.718	.734
35.8	.592	.606	.620	.634	.649	.664	.679	.695	.711	.727	.744
36.0	.600	.614	.628	.642	.657	.672	.688	.704	.720	.737	.754
36.2	.608	.622	.636	.651	.666	.681	.697	.713	.730	.747	.764
36.4	.616	.630	.644	.659	.675	.690	.706	.722	.739	.756	.774
36.6	.624	.638	.653	.668	.683	.699	.715	.732	.749	.766	.784
36.8	.632	.646	.661	.677	.692	.708	.725	.742	.759	.776	.794
37.0	.640	.655	.670	.686	.701	.718	.734	.751	.769	.786	.805
37.2	.648	.663	.679	.695	.711	.727	.744	.761	.779	.797	.815
37.4	.657	.672	.688	.704	.720	.736	.754	.771	.789	.807	.826
37.6	.665	.681	.697	.713	.729	.746	.763	.781	.799	.817	.836
37.8	.674	.690	.706	.722	.739	.756	.773	.791	.809	.828	.847
38.0	.683	.699	.715	.731	.748	.766	.783	.801	.820	.839	.858
38.2	.692	.708	.724	.741	.758	.775	.793	.812	.830	.850	.869
38.4	.701	.717	.733	.750	.768	.785	.804	.822	.841	.861	.881
38.6	.710	.726	.743	.760	.778	.796	.814	.833	.852	.872	.892
38.8	.719	.736	.753	.770	.788	.806	.825	.844	.863	.883	.903
39.0	.728	.745	.762	.780	.798	.816	.835	.854	.874	.894	.915
39.2	.738	.755	.772	.790	.808	.827	.846	.865	.885	.906	.927
39.4	.747	.764	.782	.800	.819	.837	.857	.877	.897	.917	.939
39.6	.757	.774	.792	.810	.829	.848	.868	.888	.908	.929	.951
39.8	.766	.784	.802	.821	.840	.859	.879	.899	.920	.941	.963
40.0	.776	.794	.812	.831	.850	.870	.890	.911	.932	.953	.975

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.80	6.81	6.82	6.83	6.84	6.85	6.86	6.87	6.88	6.89	6.90
.0	.0521	.0534	.0546	.0559	.0572	.0585	.0599	.0613	.0627	.0641	.0656
.2	.0530	.0543	.0555	.0568	.0581	.0595	.0609	.0623	.0637	.0652	.0667
.4	.0539	.0552	.0565	.0578	.0591	.0605	.0619	.0634	.0648	.0663	.0679
.6	.0548	.0561	.0574	.0588	.0601	.0615	.0630	.0644	.0659	.0675	.0690
.8	.0558	.0571	.0584	.0597	.0611	.0626	.0640	.0655	.0670	.0686	.0702
1.0	.0567	.0580	.0594	.0608	.0622	.0636	.0651	.0666	.0682	.0698	.0714
1.2	.0577	.0590	.0604	.0618	.0632	.0647	.0662	.0677	.0693	.0709	.0726
1.4	.0586	.0600	.0614	.0628	.0643	.0658	.0673	.0689	.0705	.0721	.0738
1.6	.0596	.0610	.0624	.0639	.0654	.0669	.0684	.0700	.0717	.0733	.0750
1.8	.0606	.0620	.0635	.0649	.0665	.0680	.0696	.0712	.0729	.0746	.0763
2.0	.0616	.0631	.0645	.0660	.0676	.0691	.0707	.0724	.0741	.0758	.0776
2.2	.0627	.0641	.0656	.0671	.0687	.0703	.0719	.0736	.0753	.0771	.0789
2.4	.0637	.0652	.0667	.0683	.0698	.0715	.0731	.0748	.0766	.0784	.0802
2.6	.0648	.0663	.0678	.0694	.0710	.0727	.0743	.0761	.0779	.0797	.0815
2.8	.0658	.0674	.0689	.0705	.0722	.0739	.0756	.0773	.0791	.0810	.0829
3.0	.0669	.0685	.0701	.0717	.0734	.0751	.0768	.0786	.0805	.0823	.0842
3.2	.0680	.0696	.0712	.0729	.0746	.0763	.0781	.0799	.0818	.0837	.0856
3.4	.0692	.0708	.0724	.0741	.0758	.0776	.0794	.0813	.0831	.0851	.0871
3.6	.0703	.0720	.0736	.0753	.0771	.0789	.0807	.0826	.0845	.0865	.0885
3.8	.0715	.0731	.0748	.0766	.0784	.0802	.0821	.0840	.0859	.0879	.0900
4.0	.0727	.0743	.0761	.0778	.0797	.0815	.0834	.0854	.0873	.0894	.0914
4.2	.0739	.0756	.0773	.0791	.0810	.0829	.0848	.0868	.0888	.0908	.0930
4.4	.0751	.0768	.0786	.0804	.0823	.0842	.0862	.0882	.0902	.0923	.0945
4.6	.0763	.0781	.0799	.0818	.0837	.0856	.0876	.0896	.0917	.0939	.0960
4.8	.0775	.0794	.0812	.0831	.0850	.0870	.0890	.0911	.0932	.0954	.0976
5.0	.0788	.0807	.0825	.0845	.0864	.0884	.0905	.0926	.0947	.0970	.0992
5.2	.0801	.0820	.0839	.0858	.0878	.0899	.0920	.0941	.0963	.0985	.1008
5.4	.0814	.0833	.0852	.0872	.0893	.0913	.0935	.0956	.0979	.1001	.1025
5.6	.0827	.0847	.0866	.0887	.0907	.0928	.0950	.0972	.0995	.1018	.1041
5.8	.0841	.0860	.0880	.0901	.0922	.0943	.0965	.0988	.1011	.1034	.1058
6.0	.0855	.0874	.0895	.0916	.0937	.0959	.0981	.1004	.1027	.1051	.1076
6.2	.0868	.0889	.0909	.0930	.0952	.0974	.0997	.1020	.1044	.1068	.1093
6.4	.0882	.0903	.0924	.0946	.0968	.0990	.1013	.1037	.1061	.1085	.1111
6.6	.0897	.0918	.0939	.0961	.0983	.1006	.1029	.1053	.1078	.1103	.1129
6.8	.0911	.0932	.0954	.0976	.0999	.1022	.1046	.1070	.1095	.1121	.1147
7.0	.0926	.0948	.0970	.0992	.1015	.1039	.1063	.1088	.1113	.1139	.1165

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.80	6.81	6.82	6.83	6.84	6.85	6.86	6.87	6.88	6.89	6.90
7.0	.0926	.0948	.0970	.0992	.1015	.1039	.1063	.1088	.1113	.1139	.1165
7.2	.0941	.0963	.0985	.1008	.1032	.1056	.1080	.1105	.1131	.1157	.1184
7.4	.0956	.0978	.1001	.1024	.1048	.1073	.1097	.1123	.1149	.1176	.1203
7.6	.0971	.0994	.1017	.1041	.1065	.1090	.1115	.1141	.1168	.1195	.1223
7.8	.0987	.1010	.1033	.1057	.1082	.1107	.1133	.1159	.1186	.1214	.1242
8.0	.100	.103	.105	.107	.110	.112	.115	.118	.121	.123	.126
8.2	.102	.104	.107	.109	.112	.114	.117	.120	.122	.125	.128
8.4	.104	.106	.108	.111	.113	.116	.119	.122	.124	.127	.130
8.6	.105	.108	.110	.113	.115	.118	.121	.124	.126	.129	.132
8.8	.107	.109	.112	.114	.117	.120	.123	.125	.128	.131	.134
9.0	.109	.111	.114	.116	.119	.122	.125	.127	.130	.133	.137
9.2	.110	.113	.115	.118	.121	.124	.127	.130	.133	.136	.139
9.4	.112	.115	.117	.120	.123	.126	.129	.132	.135	.138	.141
9.6	.114	.116	.119	.122	.125	.128	.131	.134	.137	.140	.143
9.8	.116	.118	.121	.124	.127	.130	.133	.136	.139	.142	.145
10.0	.117	.120	.123	.126	.129	.132	.135	.138	.141	.144	.148
10.2	.119	.122	.125	.128	.131	.134	.137	.140	.143	.147	.150
10.4	.121	.124	.127	.130	.133	.136	.139	.142	.146	.149	.152
10.6	.123	.126	.129	.132	.135	.138	.141	.145	.148	.151	.155
10.8	.125	.128	.131	.134	.137	.140	.143	.147	.150	.154	.157
11.0	.127	.130	.133	.136	.139	.142	.146	.149	.153	.156	.160
11.2	.129	.132	.135	.138	.141	.145	.148	.151	.155	.159	.162
11.4	.131	.134	.137	.140	.144	.147	.150	.154	.157	.161	.165
11.6	.133	.136	.139	.142	.146	.149	.153	.156	.160	.164	.167
11.8	.135	.138	.141	.145	.148	.151	.155	.159	.162	.166	.170
12.0	.137	.140	.144	.147	.150	.154	.157	.161	.165	.169	.173
12.2	.139	.143	.146	.149	.153	.156	.160	.164	.167	.171	.175
12.4	.141	.145	.148	.152	.155	.159	.162	.166	.170	.174	.178
12.6	.144	.147	.150	.154	.157	.161	.165	.169	.173	.177	.181
12.8	.146	.149	.153	.156	.160	.164	.167	.171	.175	.179	.184
13.0	.148	.152	.155	.159	.162	.166	.170	.174	.178	.182	.186
13.2	.150	.154	.157	.161	.165	.169	.173	.177	.181	.185	.189
13.4	.153	.156	.160	.164	.167	.171	.175	.179	.184	.188	.192
13.6	.155	.159	.162	.166	.170	.174	.178	.182	.186	.191	.195
13.8	.157	.161	.165	.169	.173	.177	.181	.185	.189	.194	.198
14.0	.160	.164	.167	.171	.175	.179	.183	.188	.192	.197	.201

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.80	6.81	6.82	6.83	6.84	6.85	6.86	6.87	6.88	6.89	6.90
14.0	.160	.164	.167	.171	.175	.179	.183	.188	.192	.197	.201
14.2	.162	.166	.170	.174	.178	.182	.186	.191	.195	.200	.204
14.4	.165	.169	.173	.177	.181	.185	.189	.194	.198	.203	.207
14.6	.167	.171	.175	.179	.183	.188	.192	.196	.201	.206	.211
14.8	.170	.174	.178	.182	.186	.191	.195	.199	.204	.209	.214
15.0	.172	.176	.181	.185	.189	.193	.198	.203	.207	.212	.217
15.2	.175	.179	.183	.188	.192	.196	.201	.206	.210	.215	.220
15.4	.178	.182	.186	.190	.195	.199	.204	.209	.214	.219	.224
15.6	.180	.185	.189	.193	.198	.202	.207	.212	.217	.222	.227
15.8	.183	.187	.192	.196	.201	.205	.210	.215	.220	.225	.230
16.0	.186	.190	.195	.199	.204	.209	.213	.218	.223	.229	.234
16.2	.189	.193	.198	.202	.207	.212	.217	.222	.227	.232	.237
16.4	.192	.196	.201	.205	.210	.215	.220	.225	.230	.236	.241
16.6	.194	.199	.204	.208	.213	.218	.223	.228	.234	.239	.245
16.8	.197	.202	.207	.211	.216	.221	.227	.232	.237	.243	.248
17.0	.200	.205	.210	.215	.220	.225	.230	.235	.241	.246	.252
17.2	.203	.208	.213	.218	.223	.228	.233	.239	.244	.250	.256
17.4	.206	.211	.216	.221	.226	.232	.237	.242	.248	.254	.260
17.6	.209	.214	.219	.224	.230	.235	.240	.246	.252	.258	.264
17.8	.213	.218	.223	.228	.233	.238	.244	.250	.255	.261	.268
18.0	.216	.221	.226	.231	.237	.242	.248	.253	.259	.265	.271
18.2	.219	.224	.229	.235	.240	.246	.251	.257	.263	.269	.276
18.4	.222	.227	.233	.238	.244	.249	.255	.261	.267	.273	.280
18.6	.226	.231	.236	.242	.247	.253	.259	.265	.271	.277	.284
18.8	.229	.234	.240	.245	.251	.257	.263	.269	.275	.281	.288
19.0	.232	.238	.243	.249	.255	.261	.267	.273	.279	.286	.292
19.2	.236	.241	.247	.253	.258	.264	.271	.277	.283	.290	.297
19.4	.239	.245	.250	.256	.262	.268	.275	.281	.287	.294	.301
19.6	.243	.248	.254	.260	.266	.272	.279	.285	.292	.298	.305
19.8	.246	.252	.258	.264	.270	.276	.283	.289	.296	.303	.310
20.0	.250	.256	.262	.268	.274	.280	.287	.293	.300	.307	.314
20.2	.254	.259	.266	.272	.278	.284	.291	.298	.305	.312	.319
20.4	.257	.263	.269	.276	.282	.289	.295	.302	.309	.316	.324
20.6	.261	.267	.273	.280	.286	.293	.300	.307	.314	.321	.328
20.8	.265	.271	.277	.284	.290	.297	.304	.311	.318	.326	.333
21.0	.269	.275	.281	.288	.295	.301	.308	.316	.323	.330	.338

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.80	6.81	6.82	6.83	6.84	6.85	6.86	6.87	6.88	6.89	6.90
21.0	.269	.275	.281	.288	.295	.301	.308	.316	.323	.330	.338
21.2	.273	.279	.285	.292	.299	.306	.313	.320	.328	.335	.343
21.4	.277	.283	.290	.296	.303	.310	.317	.325	.332	.340	.348
21.6	.281	.287	.294	.301	.308	.315	.322	.330	.337	.345	.353
21.8	.285	.291	.298	.305	.312	.319	.327	.334	.342	.350	.358
22.0	.289	.296	.302	.309	.317	.324	.332	.339	.347	.355	.363
22.2	.293	.300	.307	.314	.321	.329	.336	.344	.352	.360	.369
22.4	.297	.304	.311	.318	.326	.333	.341	.349	.357	.365	.374
22.6	.302	.309	.316	.323	.331	.338	.346	.354	.362	.371	.379
22.8	.306	.313	.320	.328	.335	.343	.351	.359	.368	.376	.385
23.0	.310	.318	.325	.332	.340	.348	.356	.364	.373	.382	.390
23.2	.315	.322	.330	.337	.345	.353	.361	.370	.378	.387	.396
23.4	.319	.327	.334	.342	.350	.358	.366	.375	.384	.393	.402
23.6	.324	.331	.339	.347	.355	.363	.372	.380	.389	.398	.407
23.8	.329	.336	.344	.352	.360	.368	.377	.386	.395	.404	.413
24.0	.333	.341	.349	.357	.365	.374	.382	.391	.400	.410	.419
24.2	.338	.346	.354	.362	.370	.379	.388	.397	.406	.415	.425
24.4	.343	.351	.359	.367	.376	.384	.393	.402	.412	.421	.431
24.6	.348	.356	.364	.372	.381	.390	.399	.408	.418	.427	.437
24.8	.353	.361	.369	.378	.386	.395	.405	.414	.424	.433	.443
25.0	.358	.366	.374	.383	.392	.401	.410	.420	.430	.440	.450
25.2	.363	.371	.380	.389	.398	.407	.416	.426	.436	.446	.456
25.4	.368	.376	.385	.394	.403	.413	.422	.432	.442	.452	.463
25.6	.373	.382	.391	.400	.409	.418	.428	.438	.448	.459	.469
25.8	.378	.387	.396	.405	.415	.424	.434	.444	.454	.465	.476
26.0	.384	.393	.402	.411	.420	.430	.440	.450	.461	.472	.482
26.2	.389	.398	.407	.417	.426	.436	.446	.457	.467	.478	.489
26.4	.394	.404	.413	.423	.432	.442	.453	.463	.474	.485	.496
26.6	.400	.409	.419	.428	.438	.449	.459	.470	.481	.492	.503
26.8	.406	.415	.425	.434	.445	.455	.465	.476	.487	.499	.510
27.0	.411	.421	.431	.441	.451	.461	.472	.483	.494	.506	.517
27.2	.417	.427	.437	.447	.457	.468	.479	.490	.501	.513	.524
27.4	.423	.433	.443	.453	.463	.474	.485	.496	.508	.520	.532
27.6	.429	.439	.449	.459	.470	.481	.492	.503	.515	.527	.539
27.8	.435	.445	.455	.466	.476	.488	.499	.510	.522	.534	.547
28.0	.441	.451	.461	.472	.483	.494	.506	.517	.529	.542	.554

TEMP DEG C	PH 6.80	6.81	6.82	6.83	6.84	6.85	6.86	6.87	6.88	6.89	6.90
28.0	.441	.451	.461	.472	.483	.494	.506	.517	.529	.542	.554
28.2	.447	.457	.468	.479	.490	.501	.513	.525	.537	.549	.562
28.4	.453	.464	.474	.485	.497	.508	.520	.532	.544	.557	.570
28.6	.459	.470	.481	.492	.503	.515	.527	.539	.552	.565	.578
28.8	.466	.476	.488	.499	.510	.522	.534	.547	.559	.572	.586
29.0	.472	.483	.494	.506	.517	.529	.542	.554	.567	.580	.594
29.2	.479	.490	.501	.513	.525	.537	.549	.562	.575	.588	.602
29.4	.485	.496	.508	.520	.532	.544	.557	.570	.583	.596	.610
29.6	.492	.503	.515	.527	.539	.552	.564	.577	.591	.604	.618
29.8	.499	.510	.522	.534	.546	.559	.572	.585	.599	.613	.627
30.0	.505	.517	.529	.541	.554	.567	.580	.593	.607	.621	.636
30.2	.512	.524	.536	.549	.562	.575	.588	.601	.615	.630	.644
30.4	.519	.531	.544	.556	.569	.582	.596	.610	.624	.638	.653
30.6	.526	.539	.551	.564	.577	.590	.604	.618	.632	.647	.662
30.8	.534	.546	.559	.572	.585	.598	.612	.626	.641	.656	.671
31.0	.541	.553	.566	.579	.593	.607	.621	.635	.650	.665	.680
31.2	.548	.561	.574	.587	.601	.615	.629	.644	.658	.674	.689
31.4	.556	.569	.582	.595	.609	.623	.638	.652	.667	.683	.699
31.6	.563	.576	.590	.603	.617	.632	.646	.661	.676	.692	.708
31.8	.571	.584	.598	.611	.626	.640	.655	.670	.686	.701	.718
32.0	.579	.592	.606	.620	.634	.649	.664	.679	.695	.711	.727
32.2	.586	.600	.614	.628	.643	.657	.673	.688	.704	.720	.737
32.4	.594	.608	.622	.637	.651	.666	.682	.698	.714	.730	.747
32.6	.602	.616	.631	.645	.660	.675	.691	.707	.723	.740	.757
32.8	.610	.625	.639	.654	.669	.684	.700	.716	.733	.750	.767
33.0	.619	.633	.648	.663	.678	.694	.710	.726	.743	.760	.778
33.2	.627	.641	.656	.671	.687	.703	.719	.736	.753	.770	.788
33.4	.635	.650	.665	.680	.696	.712	.729	.746	.763	.780	.798
33.6	.644	.659	.674	.689	.705	.722	.738	.755	.773	.791	.809
33.8	.652	.667	.683	.699	.715	.731	.748	.766	.783	.801	.820
34.0	.661	.676	.692	.708	.724	.741	.758	.776	.794	.812	.831
34.2	.670	.685	.701	.717	.734	.751	.768	.786	.804	.823	.842
34.4	.679	.694	.711	.727	.744	.761	.779	.797	.815	.834	.853
34.6	.688	.704	.720	.737	.754	.771	.789	.807	.826	.845	.864
34.8	.697	.713	.729	.746	.764	.781	.799	.818	.837	.856	.876
35.0	.706	.722	.739	.756	.774	.792	.810	.829	.848	.867	.887

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.80	6.81	6.82	6.83	6.84	6.85	6.86	6.87	6.88	6.89	6.90
35.0	.706	.722	.739	.756	.774	.792	.810	.829	.848	.867	.887
35.2	.715	.732	.749	.766	.784	.802	.821	.839	.859	.879	.899
35.4	.725	.742	.759	.776	.794	.813	.831	.851	.870	.890	.911
35.6	.734	.751	.769	.787	.805	.823	.842	.862	.882	.902	.923
35.8	.744	.761	.779	.797	.815	.834	.853	.873	.893	.914	.935
36.0	.754	.771	.789	.807	.826	.845	.865	.885	.905	.926	.947
36.2	.764	.781	.799	.818	.837	.856	.876	.896	.917	.938	.960
36.4	.774	.792	.810	.829	.848	.867	.887	.908	.929	.950	.972
36.6	.784	.802	.821	.839	.859	.879	.899	.920	.941	.963	.985
36.8	.794	.812	.831	.850	.870	.890	.911	.932	.953	.975	.998
37.0	.805	.823	.842	.862	.881	.902	.923	.944	.966	.988	1.011
37.2	.815	.834	.853	.873	.893	.914	.935	.956	.978	1.001	1.024
37.4	.826	.845	.864	.884	.905	.925	.947	.969	.991	1.014	1.037
37.6	.836	.856	.875	.896	.916	.937	.959	.981	1.004	1.027	1.051
37.8	.847	.867	.887	.907	.928	.950	.971	.994	1.017	1.040	1.064
38.0	.858	.878	.898	.919	.940	.962	.984	1.007	1.030	1.054	1.078
38.2	.869	.889	.910	.931	.952	.974	.997	1.020	1.043	1.067	1.092
38.4	.881	.901	.922	.943	.965	.987	1.010	1.033	1.057	1.081	1.106
38.6	.892	.912	.934	.955	.977	1.000	1.023	1.046	1.070	1.095	1.120
38.8	.903	.924	.946	.967	.990	1.012	1.036	1.060	1.084	1.109	1.135
39.0	.915	.936	.958	.980	1.002	1.025	1.049	1.073	1.098	1.123	1.149
39.2	.927	.948	.970	.992	1.015	1.039	1.063	1.087	1.112	1.138	1.164
39.4	.939	.960	.982	1.005	1.028	1.052	1.076	1.101	1.126	1.152	1.179
39.6	.951	.973	.995	1.018	1.041	1.065	1.090	1.115	1.141	1.167	1.194
39.8	.963	.985	1.008	1.031	1.055	1.079	1.104	1.129	1.155	1.182	1.209
40.0	.975	.998	1.021	1.044	1.068	1.093	1.118	1.144	1.170	1.197	1.225

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.90	6.91	6.92	6.93	6.94	6.95	6.96	6.97	6.98	6.99	7.00
.0	.0656	.0672	.0687	.0703	.0720	.0736	.0754	.0771	.0789	.0807	.0826
.2	.0667	.0683	.0699	.0715	.0732	.0749	.0766	.0784	.0802	.0821	.0840
.4	.0679	.0695	.0711	.0727	.0744	.0762	.0779	.0797	.0816	.0835	.0854
.6	.0690	.0706	.0723	.0740	.0757	.0774	.0792	.0811	.0830	.0849	.0869
.8	.0702	.0718	.0735	.0752	.0770	.0787	.0806	.0825	.0844	.0863	.0883
1.0	.0714	.0730	.0747	.0765	.0783	.0801	.0819	.0838	.0858	.0878	.0898
1.2	.0726	.0743	.0760	.0778	.0796	.0814	.0833	.0853	.0872	.0893	.0914
1.4	.0738	.0755	.0773	.0791	.0809	.0828	.0847	.0867	.0887	.0908	.0929
1.6	.0750	.0768	.0786	.0804	.0823	.0842	.0861	.0881	.0902	.0923	.0944
1.8	.0763	.0781	.0799	.0817	.0836	.0856	.0876	.0896	.0917	.0938	.0960
2.0	.0776	.0794	.0812	.0831	.0850	.0870	.0891	.0911	.0932	.0954	.0976
2.2	.0789	.0807	.0826	.0845	.0865	.0885	.0905	.0926	.0948	.0970	.0993
2.4	.0802	.0820	.0840	.0859	.0879	.0900	.0920	.0942	.0964	.0986	.1009
2.6	.0815	.0834	.0854	.0873	.0894	.0915	.0936	.0958	.0980	.1003	.1026
2.8	.0829	.0848	.0868	.0888	.0909	.0930	.0951	.0974	.0996	.1019	.1043
3.0	.0842	.0862	.0882	.0903	.0924	.0945	.0967	.0990	.1013	.1036	.1060
3.2	.0856	.0876	.0897	.0918	.0939	.0961	.0983	.1006	.1030	.1053	.1078
3.4	.0871	.0891	.0912	.0933	.0955	.0977	.1000	.1023	.1047	.1071	.1096
3.6	.0885	.0906	.0927	.0948	.0970	.0993	.1016	.1040	.1064	.1089	.1114
3.8	.0900	.0921	.0942	.0964	.0986	.1009	.1033	.1057	.1081	.1107	.1132
4.0	.0914	.0936	.0958	.0980	.1003	.1026	.1050	.1074	.1099	.1125	.1151
4.2	.0930	.0951	.0973	.0996	.1019	.1043	.1067	.1092	.1117	.1143	.1170
4.4	.0945	.0967	.0989	.1012	.1036	.1060	.1085	.1110	.1136	.1162	.1189
4.6	.0960	.0983	.1006	.1029	.1053	.1077	.1102	.1128	.1154	.1181	.1209
4.8	.0976	.0999	.1022	.1046	.1070	.1095	.1121	.1147	.1173	.1201	.1229
5.0	.0992	.1015	.1039	.1063	.1088	.1113	.1139	.1165	.1192	.1220	.1249
5.2	.101	.103	.106	.108	.111	.113	.116	.118	.121	.124	.127
5.4	.102	.105	.107	.110	.112	.115	.118	.120	.123	.126	.129
5.6	.104	.107	.109	.112	.114	.117	.120	.122	.125	.128	.131
5.8	.106	.108	.111	.113	.116	.119	.121	.124	.127	.130	.133
6.0	.108	.110	.113	.115	.118	.121	.123	.126	.129	.132	.135
6.2	.109	.112	.114	.117	.120	.123	.125	.128	.131	.134	.138
6.4	.111	.114	.116	.119	.122	.125	.128	.130	.134	.137	.140
6.6	.113	.115	.118	.121	.124	.127	.130	.133	.136	.139	.142
6.8	.115	.117	.120	.123	.126	.129	.132	.135	.138	.141	.144
7.0	.117	.119	.122	.125	.128	.131	.134	.137	.140	.143	.147

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.90	6.91	6.92	6.93	6.94	6.95	6.96	6.97	6.98	6.99	7.00
7.0	.117	.119	.122	.125	.128	.131	.134	.137	.140	.143	.147
7.2	.118	.121	.124	.127	.130	.133	.136	.139	.142	.146	.149
7.4	.120	.123	.126	.129	.132	.135	.138	.141	.145	.148	.151
7.6	.122	.125	.128	.131	.134	.137	.140	.144	.147	.150	.154
7.8	.124	.127	.130	.133	.136	.139	.143	.146	.149	.153	.156
8.0	.126	.129	.132	.135	.138	.142	.145	.148	.152	.155	.159
8.2	.128	.131	.134	.137	.141	.144	.147	.151	.154	.158	.161
8.4	.130	.133	.136	.140	.143	.146	.150	.153	.157	.160	.164
8.6	.132	.135	.139	.142	.145	.148	.152	.155	.159	.163	.167
8.8	.134	.138	.141	.144	.147	.151	.154	.158	.162	.165	.169
9.0	.137	.140	.143	.146	.150	.153	.157	.160	.164	.168	.172
9.2	.139	.142	.145	.149	.152	.156	.159	.163	.167	.171	.175
9.4	.141	.144	.148	.151	.155	.158	.162	.166	.169	.173	.177
9.6	.143	.147	.150	.153	.157	.161	.164	.168	.172	.176	.180
9.8	.145	.149	.152	.156	.159	.163	.167	.171	.175	.179	.183
10.0	.148	.151	.155	.158	.162	.166	.170	.174	.178	.182	.186
10.2	.150	.154	.157	.161	.165	.168	.172	.176	.180	.185	.189
10.4	.152	.156	.160	.163	.167	.171	.175	.179	.183	.187	.192
10.6	.155	.158	.162	.166	.170	.174	.178	.182	.186	.190	.195
10.8	.157	.161	.165	.168	.172	.176	.181	.185	.189	.193	.198
11.0	.160	.163	.167	.171	.175	.179	.183	.188	.192	.196	.201
11.2	.162	.166	.170	.174	.178	.182	.186	.191	.195	.200	.204
11.4	.165	.169	.173	.177	.181	.185	.189	.194	.198	.203	.207
11.6	.167	.171	.175	.179	.183	.188	.192	.197	.201	.206	.211
11.8	.170	.174	.178	.182	.186	.191	.195	.200	.204	.209	.214
12.0	.173	.177	.181	.185	.189	.194	.198	.203	.207	.212	.217
12.2	.175	.179	.184	.188	.192	.197	.201	.206	.211	.216	.221
12.4	.178	.182	.186	.191	.195	.200	.204	.209	.214	.219	.224
12.6	.181	.185	.189	.194	.198	.203	.207	.212	.217	.222	.227
12.8	.184	.188	.192	.197	.201	.206	.211	.216	.221	.226	.231
13.0	.186	.191	.195	.200	.204	.209	.214	.219	.224	.229	.235
13.2	.189	.194	.198	.203	.207	.212	.217	.222	.227	.233	.238
13.4	.192	.197	.201	.206	.211	.216	.221	.226	.231	.236	.242
13.6	.195	.200	.204	.209	.214	.219	.224	.229	.234	.240	.246
13.8	.198	.203	.207	.212	.217	.222	.227	.233	.238	.244	.249
14.0	.201	.206	.211	.216	.221	.226	.231	.236	.242	.247	.253

TEMP DEG C	PH 6.90	6.91	6.92	6.93	6.94	6.95	6.96	6.97	6.98	6.99	7.00
14.0	.201	.206	.211	.216	.221	.226	.231	.236	.242	.247	.253
14.2	.204	.209	.214	.219	.224	.229	.234	.240	.245	.251	.257
14.4	.207	.212	.217	.222	.227	.233	.238	.244	.249	.255	.261
14.6	.211	.215	.220	.226	.231	.236	.242	.247	.253	.259	.265
14.8	.214	.219	.224	.229	.234	.240	.245	.251	.257	.263	.269
15.0	.217	.222	.227	.232	.238	.243	.249	.255	.261	.267	.273
15.2	.220	.225	.231	.236	.241	.247	.253	.259	.265	.271	.277
15.4	.224	.229	.234	.240	.245	.251	.257	.263	.269	.275	.281
15.6	.227	.232	.238	.243	.249	.255	.261	.267	.273	.279	.286
15.8	.230	.236	.241	.247	.253	.259	.265	.271	.277	.283	.290
16.0	.234	.239	.245	.251	.256	.262	.269	.275	.281	.288	.294
16.2	.237	.243	.249	.254	.260	.266	.273	.279	.285	.292	.299
16.4	.241	.247	.252	.258	.264	.270	.277	.283	.290	.296	.303
16.6	.245	.250	.256	.262	.268	.274	.281	.287	.294	.301	.308
16.8	.248	.254	.260	.266	.272	.279	.285	.292	.298	.305	.312
17.0	.252	.258	.264	.270	.276	.283	.289	.296	.303	.310	.317
17.2	.256	.262	.268	.274	.280	.287	.294	.300	.307	.315	.322
17.4	.260	.266	.272	.278	.285	.291	.298	.305	.312	.319	.327
17.6	.264	.270	.276	.282	.289	.296	.303	.310	.317	.324	.332
17.8	.268	.274	.280	.287	.293	.300	.307	.314	.321	.329	.337
18.0	.271	.278	.284	.291	.298	.305	.312	.319	.326	.334	.342
18.2	.276	.282	.288	.295	.302	.309	.316	.324	.331	.339	.347
18.4	.280	.286	.293	.300	.307	.314	.321	.328	.336	.344	.352
18.6	.284	.290	.297	.304	.311	.318	.326	.333	.341	.349	.357
18.8	.288	.295	.302	.309	.316	.323	.331	.338	.346	.354	.362
19.0	.292	.299	.306	.313	.320	.328	.335	.343	.351	.359	.368
19.2	.297	.303	.310	.318	.325	.333	.340	.348	.356	.365	.373
19.4	.301	.308	.315	.322	.330	.338	.345	.353	.362	.370	.379
19.6	.305	.312	.320	.327	.335	.343	.350	.359	.367	.375	.384
19.8	.310	.317	.324	.332	.340	.348	.356	.364	.372	.381	.390
20.0	.314	.322	.329	.337	.345	.353	.361	.369	.378	.387	.396
20.2	.319	.326	.334	.342	.350	.358	.366	.375	.383	.392	.401
20.4	.324	.331	.339	.347	.355	.363	.371	.380	.389	.398	.407
20.6	.328	.336	.344	.352	.360	.368	.377	.386	.395	.404	.413
20.8	.333	.341	.349	.357	.365	.374	.382	.391	.400	.410	.419
21.0	.338	.346	.354	.362	.371	.379	.388	.397	.406	.416	.425

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.90	6.91	6.92	6.93	6.94	6.95	6.96	6.97	6.98	6.99	7.00
21.0	.338	.346	.354	.362	.371	.379	.388	.397	.406	.416	.425
21.2	.343	.351	.359	.367	.376	.385	.394	.403	.412	.422	.431
21.4	.348	.356	.364	.373	.381	.390	.399	.409	.418	.428	.438
21.6	.353	.361	.370	.378	.387	.396	.405	.415	.424	.434	.444
21.8	.358	.367	.375	.384	.393	.402	.411	.421	.430	.440	.451
22.0	.363	.372	.380	.389	.398	.408	.417	.427	.437	.447	.457
22.2	.369	.377	.386	.395	.404	.413	.423	.433	.443	.453	.464
22.4	.374	.383	.392	.401	.410	.419	.429	.439	.449	.460	.470
22.6	.379	.388	.397	.406	.416	.425	.435	.445	.456	.466	.477
22.8	.385	.394	.403	.412	.422	.432	.442	.452	.462	.473	.484
23.0	.390	.399	.409	.418	.428	.438	.448	.458	.469	.480	.491
23.2	.396	.405	.415	.424	.434	.444	.454	.465	.476	.487	.498
23.4	.402	.411	.420	.430	.440	.450	.461	.472	.482	.494	.505
23.6	.407	.417	.427	.436	.447	.457	.467	.478	.489	.501	.512
23.8	.413	.423	.433	.443	.453	.463	.474	.485	.496	.508	.520
24.0	.419	.429	.439	.449	.459	.470	.481	.492	.503	.515	.527
24.2	.425	.435	.445	.455	.466	.477	.488	.499	.511	.522	.535
24.4	.431	.441	.451	.462	.473	.484	.495	.506	.518	.530	.542
24.6	.437	.447	.458	.468	.479	.490	.502	.513	.525	.537	.550
24.8	.443	.454	.464	.475	.486	.497	.509	.521	.533	.545	.558
25.0	.450	.460	.471	.482	.493	.504	.516	.528	.540	.553	.566
25.2	.456	.467	.478	.489	.500	.512	.523	.536	.548	.561	.574
25.4	.463	.473	.484	.496	.507	.519	.531	.543	.556	.569	.582
25.6	.469	.480	.491	.503	.514	.526	.538	.551	.563	.577	.590
25.8	.476	.487	.498	.510	.521	.533	.546	.558	.571	.585	.598
26.0	.482	.494	.505	.517	.529	.541	.554	.566	.579	.593	.607
26.2	.489	.501	.512	.524	.536	.549	.561	.574	.588	.601	.615
26.4	.496	.508	.519	.531	.544	.556	.569	.582	.596	.610	.624
26.6	.503	.515	.527	.539	.551	.564	.577	.591	.604	.618	.632
26.8	.510	.522	.534	.546	.559	.572	.585	.599	.613	.627	.641
27.0	.517	.529	.541	.554	.567	.580	.593	.607	.621	.636	.650
27.2	.524	.537	.549	.562	.575	.588	.602	.616	.630	.644	.659
27.4	.532	.544	.557	.570	.583	.596	.610	.624	.639	.653	.669
27.6	.539	.552	.564	.578	.591	.605	.619	.633	.648	.663	.678
27.8	.547	.559	.572	.586	.599	.613	.627	.642	.657	.672	.687
28.0	.554	.567	.580	.594	.607	.621	.636	.651	.666	.681	.697

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.90	6.91	6.92	6.93	6.94	6.95	6.96	6.97	6.98	6.99	7.00
28.0	.554	.567	.580	.594	.607	.621	.636	.651	.666	.681	.697
28.2	.562	.575	.588	.602	.616	.630	.645	.660	.675	.690	.706
28.4	.570	.583	.596	.610	.624	.639	.654	.669	.684	.700	.716
28.6	.578	.591	.605	.619	.633	.648	.663	.678	.694	.710	.726
28.8	.586	.599	.613	.627	.642	.657	.672	.687	.703	.719	.736
29.0	.594	.607	.621	.636	.651	.666	.681	.697	.713	.729	.746
29.2	.602	.616	.630	.645	.659	.675	.690	.706	.723	.739	.756
29.4	.610	.624	.639	.653	.669	.684	.700	.716	.733	.750	.767
29.6	.618	.633	.647	.662	.678	.693	.709	.726	.743	.760	.777
29.8	.627	.641	.656	.671	.687	.703	.719	.736	.753	.770	.788
30.0	.636	.650	.665	.681	.696	.713	.729	.746	.763	.781	.799
30.2	.644	.659	.674	.690	.706	.722	.739	.756	.773	.791	.810
30.4	.653	.668	.684	.699	.716	.732	.749	.766	.784	.802	.821
30.6	.662	.677	.693	.709	.725	.742	.759	.777	.795	.813	.832
30.8	.671	.686	.702	.719	.735	.752	.770	.787	.806	.824	.843
31.0	.680	.696	.712	.728	.745	.762	.780	.798	.816	.835	.855
31.2	.689	.705	.722	.738	.755	.773	.791	.809	.828	.847	.866
31.4	.699	.715	.731	.748	.765	.783	.801	.820	.839	.858	.878
31.6	.708	.724	.741	.758	.776	.794	.812	.831	.850	.870	.890
31.8	.718	.734	.751	.769	.786	.804	.823	.842	.862	.881	.902
32.0	.727	.744	.761	.779	.797	.815	.834	.853	.873	.893	.914
32.2	.737	.754	.772	.789	.808	.826	.845	.865	.885	.905	.926
32.4	.747	.764	.782	.800	.819	.837	.857	.877	.897	.917	.939
32.6	.757	.775	.792	.811	.830	.849	.868	.888	.909	.930	.951
32.8	.767	.785	.803	.822	.841	.860	.880	.900	.921	.942	.964
33.0	.778	.795	.814	.833	.852	.872	.892	.912	.933	.955	.977
33.2	.788	.806	.825	.844	.863	.883	.904	.924	.946	.968	.990
33.4	.798	.817	.836	.855	.875	.895	.916	.937	.958	.980	1.003
33.6	.809	.828	.847	.866	.886	.907	.928	.949	.971	.994	1.016
33.8	.820	.839	.858	.878	.898	.919	.940	.962	.984	1.007	1.030
34.0	.831	.850	.870	.890	.910	.931	.953	.975	.997	1.020	1.044
34.2	.842	.861	.881	.901	.922	.944	.965	.988	1.010	1.034	1.057
34.4	.853	.873	.893	.913	.935	.956	.978	1.001	1.024	1.047	1.071
34.6	.864	.884	.905	.926	.947	.969	.991	1.014	1.037	1.061	1.086
34.8	.876	.896	.917	.938	.959	.982	1.004	1.027	1.051	1.075	1.100
35.0	.887	.908	.929	.950	.972	.994	1.017	1.041	1.065	1.089	1.114

TABLE A-1 CONTINUED

TEMP DEG C	PH 6.90	6.91	6.92	6.93	6.94	6.95	6.96	6.97	6.98	6.99	7.00
35.0	.887	.908	.929	.950	.972	.994	1.017	1.041	1.065	1.089	1.114
35.2	.899	.920	.941	.963	.985	1.008	1.031	1.055	1.079	1.104	1.129
35.4	.911	.932	.953	.975	.998	1.021	1.044	1.068	1.093	1.118	1.144
35.6	.923	.944	.966	.988	1.011	1.034	1.058	1.082	1.107	1.133	1.159
35.8	.935	.957	.979	1.001	1.024	1.048	1.072	1.097	1.122	1.148	1.174
36.0	.947	.969	.991	1.014	1.038	1.062	1.086	1.111	1.137	1.163	1.190
36.2	.960	.982	1.004	1.028	1.051	1.075	1.100	1.126	1.151	1.178	1.205
36.4	.972	.995	1.018	1.041	1.065	1.089	1.115	1.140	1.167	1.193	1.221
36.6	.985	1.008	1.031	1.055	1.079	1.104	1.129	1.155	1.182	1.209	1.237
36.8	.998	1.021	1.044	1.068	1.093	1.118	1.144	1.170	1.197	1.225	1.253
37.0	1.01	1.03	1.06	1.08	1.11	1.13	1.16	1.19	1.21	1.24	1.27
37.2	1.02	1.05	1.07	1.10	1.12	1.15	1.17	1.20	1.23	1.26	1.29
37.4	1.04	1.06	1.09	1.11	1.14	1.16	1.19	1.22	1.24	1.27	1.30
37.6	1.05	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26	1.29	1.32
37.8	1.06	1.09	1.11	1.14	1.17	1.19	1.22	1.25	1.28	1.31	1.34
38.0	1.08	1.10	1.13	1.15	1.18	1.21	1.24	1.26	1.29	1.32	1.35
38.2	1.09	1.12	1.14	1.17	1.20	1.22	1.25	1.28	1.31	1.34	1.37
38.4	1.11	1.13	1.16	1.18	1.21	1.24	1.27	1.30	1.33	1.36	1.39
38.6	1.12	1.15	1.17	1.20	1.23	1.26	1.28	1.31	1.34	1.37	1.41
38.8	1.13	1.16	1.19	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42
39.0	1.15	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44
39.2	1.16	1.19	1.22	1.25	1.27	1.30	1.33	1.36	1.40	1.43	1.46
39.4	1.18	1.21	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.45	1.48
39.6	1.19	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.43	1.46	1.50
39.8	1.21	1.24	1.27	1.29	1.32	1.35	1.39	1.42	1.45	1.48	1.52
40.0	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.44	1.47	1.50	1.54

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.00	7.01	7.02	7.03	7.04	7.05	7.06	7.07	7.08	7.09	7.10
.0	.0826	.0845	.0865	.0885	.0906	.0927	.0948	.0971	.0993	.1016	.1040
.2	.0840	.0860	.0880	.0900	.0921	.0943	.0965	.0987	.1010	.1033	.1057
.4	.0854	.0874	.0895	.0915	.0937	.0959	.0981	.1004	.1027	.1051	.1075
.6	.0869	.0889	.0910	.0931	.0953	.0975	.0997	.1021	.1044	.1069	.1094
.8	.0883	.0904	.0925	.0947	.0969	.0991	.1014	.1038	.1062	.1087	.1112
1.0	.0898	.0919	.0941	.0963	.0985	.1008	.1031	.1055	.1080	.1105	.1131
1.2	.0914	.0935	.0957	.0979	.1002	.1025	.1049	.1073	.1098	.1124	.1150
1.4	.0929	.0950	.0973	.0995	.1018	.1042	.1066	.1091	.1117	.1142	.1169
1.6	.0944	.0966	.0989	.1012	.1035	.1060	.1084	.1109	.1135	.1162	.1189
1.8	.0960	.0983	.1005	.1029	.1053	.1077	.1102	.1128	.1154	.1181	.1209
2.0	.0976	.0999	.1022	.1046	.1070	.1095	.1121	.1147	.1174	.1201	.1229
2.2	.0993	.1016	.1039	.1064	.1088	.1114	.1140	.1166	.1193	.1221	.1249
2.4	.101	.103	.106	.108	.111	.113	.116	.119	.121	.124	.127
2.6	.103	.105	.107	.110	.112	.115	.118	.121	.123	.126	.129
2.8	.104	.107	.109	.112	.114	.117	.120	.123	.125	.128	.131
3.0	.106	.109	.111	.114	.116	.119	.122	.125	.127	.130	.133
3.2	.108	.110	.113	.115	.118	.121	.124	.127	.130	.133	.136
3.4	.110	.112	.115	.117	.120	.123	.126	.129	.132	.135	.138
3.6	.111	.114	.117	.119	.122	.125	.128	.131	.134	.137	.140
3.8	.113	.116	.119	.121	.124	.127	.130	.133	.136	.139	.143
4.0	.115	.118	.121	.123	.126	.129	.132	.135	.138	.142	.145
4.2	.117	.120	.123	.125	.128	.131	.134	.137	.141	.144	.147
4.4	.119	.122	.125	.127	.130	.133	.137	.140	.143	.146	.150
4.6	.121	.124	.127	.130	.133	.136	.139	.142	.145	.149	.152
4.8	.123	.126	.129	.132	.135	.138	.141	.144	.148	.151	.155
5.0	.125	.128	.131	.134	.137	.140	.143	.147	.150	.154	.157
5.2	.127	.130	.133	.136	.139	.142	.146	.149	.153	.156	.160
5.4	.129	.132	.135	.138	.141	.145	.148	.151	.155	.159	.162
5.6	.131	.134	.137	.140	.144	.147	.150	.154	.158	.161	.165
5.8	.133	.136	.139	.143	.146	.149	.153	.156	.160	.164	.168
6.0	.135	.139	.142	.145	.148	.152	.155	.159	.163	.166	.170
6.2	.138	.141	.144	.147	.151	.154	.158	.162	.165	.169	.173
6.4	.140	.143	.146	.150	.153	.157	.160	.164	.168	.172	.176
6.6	.142	.145	.149	.152	.156	.159	.163	.167	.171	.175	.179
6.8	.144	.148	.151	.155	.158	.162	.166	.170	.173	.178	.182
7.0	.147	.150	.154	.157	.161	.165	.168	.172	.176	.180	.185

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.00	7.01	7.02	7.03	7.04	7.05	7.06	7.07	7.08	7.09	7.10
7.0	.147	.150	.154	.157	.161	.165	.168	.172	.176	.180	.185
7.2	.149	.153	.156	.160	.163	.167	.171	.175	.179	.183	.188
7.4	.151	.155	.159	.162	.166	.170	.174	.178	.182	.186	.191
7.6	.154	.157	.161	.165	.169	.173	.177	.181	.185	.189	.194
7.8	.156	.160	.164	.167	.171	.175	.179	.184	.188	.192	.197
8.0	.159	.163	.166	.170	.174	.178	.182	.187	.191	.195	.200
8.2	.161	.165	.169	.173	.177	.181	.185	.190	.194	.198	.203
8.4	.164	.168	.172	.176	.180	.184	.188	.193	.197	.202	.206
8.6	.167	.170	.174	.178	.183	.187	.191	.196	.200	.205	.210
8.8	.169	.173	.177	.181	.186	.190	.194	.199	.203	.208	.213
9.0	.172	.176	.180	.184	.188	.193	.197	.202	.207	.211	.216
9.2	.175	.179	.183	.187	.191	.196	.200	.205	.210	.215	.220
9.4	.177	.182	.186	.190	.194	.199	.204	.208	.213	.218	.223
9.6	.180	.184	.189	.193	.198	.202	.207	.212	.217	.222	.227
9.8	.183	.187	.192	.196	.201	.205	.210	.215	.220	.225	.230
10.0	.186	.190	.195	.199	.204	.209	.213	.218	.223	.229	.234
10.2	.189	.193	.198	.202	.207	.212	.217	.222	.227	.232	.238
10.4	.192	.196	.201	.206	.210	.215	.220	.225	.231	.236	.241
10.6	.195	.199	.204	.209	.214	.219	.224	.229	.234	.240	.245
10.8	.198	.203	.207	.212	.217	.222	.227	.232	.238	.243	.249
11.0	.201	.206	.210	.215	.220	.225	.231	.236	.242	.247	.253
11.2	.204	.209	.214	.219	.224	.229	.234	.240	.245	.251	.257
11.4	.207	.212	.217	.222	.227	.233	.238	.244	.249	.255	.261
11.6	.211	.215	.220	.226	.231	.236	.242	.247	.253	.259	.265
11.8	.214	.219	.224	.229	.234	.240	.245	.251	.257	.263	.269
12.0	.217	.222	.227	.233	.238	.244	.249	.255	.261	.267	.273
12.2	.221	.226	.231	.236	.242	.247	.253	.259	.265	.271	.277
12.4	.224	.229	.235	.240	.246	.251	.257	.263	.269	.275	.282
12.6	.227	.233	.238	.244	.249	.255	.261	.267	.273	.280	.286
12.8	.231	.236	.242	.247	.253	.259	.265	.271	.278	.284	.291
13.0	.235	.240	.246	.251	.257	.263	.269	.275	.282	.288	.295
13.2	.238	.244	.249	.255	.261	.267	.273	.280	.286	.293	.300
13.4	.242	.247	.253	.259	.265	.271	.278	.284	.291	.297	.304
13.6	.246	.251	.257	.263	.269	.275	.282	.288	.295	.302	.309
13.8	.249	.255	.261	.267	.273	.280	.286	.293	.300	.307	.314
14.0	.253	.259	.265	.271	.277	.284	.290	.297	.304	.311	.318

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.00	7.01	7.02	7.03	7.04	7.05	7.06	7.07	7.08	7.09	7.10
14.0	.253	.259	.265	.271	.277	.284	.290	.297	.304	.311	.318
14.2	.257	.263	.269	.275	.282	.288	.295	.302	.309	.316	.323
14.4	.261	.267	.273	.280	.286	.293	.299	.306	.314	.321	.328
14.6	.265	.271	.277	.284	.290	.297	.304	.311	.318	.326	.333
14.8	.269	.275	.282	.288	.295	.302	.309	.316	.323	.331	.338
15.0	.273	.279	.286	.292	.299	.306	.313	.321	.328	.336	.343
15.2	.277	.284	.290	.297	.304	.311	.318	.325	.333	.341	.349
15.4	.281	.288	.295	.301	.308	.316	.323	.330	.338	.346	.354
15.6	.286	.292	.299	.306	.313	.320	.328	.335	.343	.351	.359
15.8	.290	.297	.304	.311	.318	.325	.333	.340	.348	.356	.365
16.0	.294	.301	.308	.315	.323	.330	.338	.346	.354	.362	.370
16.2	.299	.306	.313	.320	.328	.335	.343	.351	.359	.367	.376
16.4	.303	.310	.318	.325	.332	.340	.348	.356	.364	.373	.382
16.6	.308	.315	.322	.330	.337	.345	.353	.361	.370	.378	.387
16.8	.312	.320	.327	.335	.343	.350	.359	.367	.375	.384	.393
17.0	.317	.325	.332	.340	.348	.356	.364	.372	.381	.390	.399
17.2	.322	.329	.337	.345	.353	.361	.369	.378	.387	.396	.405
17.4	.327	.334	.342	.350	.358	.366	.375	.384	.393	.402	.411
17.6	.332	.339	.347	.355	.363	.372	.381	.389	.398	.408	.417
17.8	.337	.344	.352	.361	.369	.377	.386	.395	.404	.414	.423
18.0	.342	.349	.358	.366	.374	.383	.392	.401	.410	.420	.430
18.2	.347	.355	.363	.371	.380	.389	.398	.407	.416	.426	.436
18.4	.352	.360	.368	.377	.386	.395	.404	.413	.423	.432	.442
18.6	.357	.365	.374	.382	.391	.400	.410	.419	.429	.439	.449
18.8	.362	.371	.379	.388	.397	.406	.416	.425	.435	.445	.456
19.0	.368	.376	.385	.394	.403	.412	.422	.432	.442	.452	.462
19.2	.373	.382	.391	.400	.409	.418	.428	.438	.448	.459	.469
19.4	.379	.387	.396	.406	.415	.425	.434	.444	.455	.465	.476
19.6	.384	.393	.402	.411	.421	.431	.441	.451	.461	.472	.483
19.8	.390	.399	.408	.418	.427	.437	.447	.458	.468	.479	.490
20.0	.396	.405	.414	.424	.433	.444	.454	.464	.475	.486	.497
20.2	.401	.411	.420	.430	.440	.450	.460	.471	.482	.493	.505
20.4	.407	.417	.426	.436	.446	.457	.467	.478	.489	.500	.512
20.6	.413	.423	.433	.443	.453	.463	.474	.485	.496	.508	.520
20.8	.419	.429	.439	.449	.459	.470	.481	.492	.504	.515	.527
21.0	.425	.435	.445	.456	.466	.477	.488	.499	.511	.523	.535

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.00	7.01	7.02	7.03	7.04	7.05	7.06	7.07	7.08	7.09	7.10
21.0	.425	.435	.445	.456	.466	.477	.488	.499	.511	.523	.535
21.2	.431	.441	.452	.462	.473	.484	.495	.507	.518	.530	.543
21.4	.438	.448	.458	.469	.480	.491	.502	.514	.526	.538	.550
21.6	.444	.454	.465	.476	.487	.498	.510	.521	.533	.546	.558
21.8	.451	.461	.472	.483	.494	.505	.517	.529	.541	.554	.567
22.0	.457	.468	.478	.490	.501	.513	.524	.537	.549	.562	.575
22.2	.464	.474	.485	.497	.508	.520	.532	.544	.557	.570	.583
22.4	.470	.481	.492	.504	.515	.527	.540	.552	.565	.578	.591
22.6	.477	.488	.499	.511	.523	.535	.547	.560	.573	.586	.600
22.8	.484	.495	.507	.518	.530	.543	.555	.568	.581	.595	.609
23.0	.491	.502	.514	.526	.538	.551	.563	.576	.590	.603	.617
23.2	.498	.510	.521	.533	.546	.558	.571	.585	.598	.612	.626
23.4	.505	.517	.529	.541	.554	.566	.580	.593	.607	.621	.635
23.6	.512	.524	.536	.549	.561	.574	.588	.601	.615	.630	.644
23.8	.520	.532	.544	.557	.570	.583	.596	.610	.624	.639	.653
24.0	.527	.539	.552	.565	.578	.591	.605	.619	.633	.648	.663
24.2	.535	.547	.560	.573	.586	.599	.613	.627	.642	.657	.672
24.4	.542	.555	.568	.581	.594	.608	.622	.636	.651	.666	.682
24.6	.550	.563	.576	.589	.603	.617	.631	.645	.660	.676	.691
24.8	.558	.571	.584	.597	.611	.625	.640	.655	.670	.685	.701
25.0	.566	.579	.592	.606	.620	.634	.649	.664	.679	.695	.711
25.2	.574	.587	.600	.614	.629	.643	.658	.673	.689	.705	.721
25.4	.582	.595	.609	.623	.637	.652	.667	.683	.699	.715	.731
25.6	.590	.604	.618	.632	.646	.661	.677	.692	.708	.725	.741
25.8	.598	.612	.626	.641	.656	.671	.686	.702	.718	.735	.752
26.0	.607	.621	.635	.650	.665	.680	.696	.712	.728	.745	.762
26.2	.615	.629	.644	.659	.674	.690	.706	.722	.739	.756	.773
26.4	.624	.638	.653	.668	.684	.699	.716	.732	.749	.766	.784
26.6	.632	.647	.662	.677	.693	.709	.726	.742	.759	.777	.795
26.8	.641	.656	.671	.687	.703	.719	.736	.753	.770	.788	.806
27.0	.650	.665	.681	.696	.713	.729	.746	.763	.781	.799	.817
27.2	.659	.675	.690	.706	.723	.739	.756	.774	.792	.810	.829
27.4	.669	.684	.700	.716	.733	.749	.767	.785	.803	.821	.840
27.6	.678	.694	.710	.726	.743	.760	.777	.795	.814	.833	.852
27.8	.687	.703	.719	.736	.753	.770	.788	.806	.825	.844	.864
28.0	.697	.713	.729	.746	.763	.781	.799	.818	.837	.856	.876

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.00	7.01	7.02	7.03	7.04	7.05	7.06	7.07	7.08	7.09	7.10
28.0	.697	.713	.729	.746	.763	.781	.799	.818	.837	.856	.876
28.2	.706	.723	.739	.757	.774	.792	.810	.829	.848	.868	.888
28.4	.716	.733	.750	.767	.785	.803	.821	.840	.860	.880	.900
28.6	.726	.743	.760	.778	.796	.814	.833	.852	.872	.892	.912
28.8	.736	.753	.770	.788	.807	.825	.844	.864	.884	.904	.925
29.0	.746	.763	.781	.799	.818	.836	.856	.876	.896	.916	.938
29.2	.756	.774	.792	.810	.829	.848	.868	.888	.908	.929	.950
29.4	.767	.785	.803	.821	.840	.860	.879	.900	.921	.942	.963
29.6	.777	.795	.814	.832	.852	.871	.891	.912	.933	.955	.977
29.8	.788	.806	.825	.844	.863	.883	.904	.925	.946	.968	.990
30.0	.799	.817	.836	.855	.875	.895	.916	.937	.959	.981	1.003
30.2	.810	.828	.847	.867	.887	.908	.928	.950	.972	.994	1.017
30.4	.821	.840	.859	.879	.899	.920	.941	.963	.985	1.008	1.031
30.6	.832	.851	.871	.891	.911	.932	.954	.976	.998	1.021	1.045
30.8	.843	.863	.883	.903	.924	.945	.967	.989	1.012	1.035	1.059
31.0	.855	.874	.895	.915	.936	.958	.980	1.003	1.026	1.049	1.073
31.2	.866	.886	.907	.928	.949	.971	.993	1.016	1.040	1.064	1.088
31.4	.878	.898	.919	.940	.962	.984	1.007	1.030	1.054	1.078	1.103
31.6	.890	.910	.931	.953	.975	.997	1.020	1.044	1.068	1.092	1.118
31.8	.902	.923	.944	.966	.988	1.011	1.034	1.058	1.082	1.107	1.133
32.0	.914	.935	.957	.979	1.001	1.024	1.048	1.072	1.097	1.122	1.148
32.2	.926	.948	.969	.992	1.015	1.038	1.062	1.086	1.111	1.137	1.163
32.4	.939	.960	.982	1.005	1.028	1.052	1.076	1.101	1.126	1.152	1.179
32.6	.951	.973	.996	1.019	1.042	1.066	1.091	1.116	1.141	1.168	1.195
32.8	.964	.986	1.009	1.032	1.056	1.080	1.105	1.131	1.157	1.183	1.211
33.0	.977	.999	1.022	1.046	1.070	1.095	1.120	1.146	1.172	1.199	1.227
33.2	.990	1.013	1.036	1.060	1.084	1.109	1.135	1.161	1.188	1.215	1.243
33.4	1.00	1.03	1.05	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26
33.6	1.02	1.04	1.06	1.09	1.11	1.14	1.17	1.19	1.22	1.25	1.28
33.8	1.03	1.05	1.08	1.10	1.13	1.15	1.18	1.21	1.24	1.26	1.29
34.0	1.04	1.07	1.09	1.12	1.14	1.17	1.20	1.22	1.25	1.28	1.31
34.2	1.06	1.08	1.11	1.13	1.16	1.18	1.21	1.24	1.27	1.30	1.33
34.4	1.07	1.10	1.12	1.15	1.17	1.20	1.23	1.26	1.29	1.31	1.35
34.6	1.09	1.11	1.14	1.16	1.19	1.22	1.24	1.27	1.30	1.33	1.36
34.8	1.10	1.13	1.15	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38
35.0	1.11	1.14	1.17	1.19	1.22	1.25	1.28	1.31	1.34	1.37	1.40

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.00	7.01	7.02	7.03	7.04	7.05	7.06	7.07	7.08	7.09	7.10
35.0	1.11	1.14	1.17	1.19	1.22	1.25	1.28	1.31	1.34	1.37	1.40
35.2	1.13	1.16	1.18	1.21	1.24	1.27	1.29	1.32	1.35	1.39	1.42
35.4	1.14	1.17	1.20	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.44
35.6	1.16	1.19	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.45
35.8	1.17	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.47
36.0	1.19	1.22	1.24	1.27	1.30	1.33	1.36	1.39	1.43	1.46	1.49
36.2	1.21	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.45	1.48	1.51
36.4	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.43	1.46	1.50	1.53
36.6	1.24	1.27	1.29	1.32	1.35	1.39	1.42	1.45	1.48	1.52	1.55
36.8	1.25	1.28	1.31	1.34	1.37	1.40	1.44	1.47	1.50	1.54	1.57
37.0	1.27	1.30	1.33	1.36	1.39	1.42	1.45	1.49	1.52	1.56	1.59
37.2	1.29	1.32	1.35	1.38	1.41	1.44	1.47	1.51	1.54	1.58	1.61
37.4	1.30	1.33	1.36	1.39	1.43	1.46	1.49	1.53	1.56	1.60	1.63
37.6	1.32	1.35	1.38	1.41	1.44	1.48	1.51	1.55	1.58	1.62	1.65
37.8	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60	1.64	1.68
38.0	1.35	1.38	1.42	1.45	1.48	1.52	1.55	1.59	1.62	1.66	1.70
38.2	1.37	1.40	1.43	1.47	1.50	1.54	1.57	1.61	1.64	1.68	1.72
38.4	1.39	1.42	1.45	1.49	1.52	1.56	1.59	1.63	1.66	1.70	1.74
38.6	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65	1.69	1.72	1.76
38.8	1.42	1.46	1.49	1.52	1.56	1.60	1.63	1.67	1.71	1.75	1.79
39.0	1.44	1.48	1.51	1.54	1.58	1.62	1.65	1.69	1.73	1.77	1.81
39.2	1.46	1.49	1.53	1.56	1.60	1.64	1.67	1.71	1.75	1.79	1.83
39.4	1.48	1.51	1.55	1.58	1.62	1.66	1.69	1.73	1.77	1.81	1.86
39.6	1.50	1.53	1.57	1.60	1.64	1.68	1.72	1.76	1.80	1.84	1.88
39.8	1.52	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90
40.0	1.54	1.57	1.61	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.93

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.10	7.11	7.12	7.13	7.14	7.15	7.16	7.17	7.18	7.19	7.20
.0	.104	.106	.109	.111	.114	.117	.119	.122	.125	.128	.131
.2	.106	.108	.111	.113	.116	.119	.121	.124	.127	.130	.133
.4	.108	.110	.113	.115	.118	.121	.123	.126	.129	.132	.135
.6	.109	.112	.115	.117	.120	.123	.126	.128	.131	.135	.138
.8	.111	.114	.116	.119	.122	.125	.128	.131	.134	.137	.140
1.0	.113	.116	.118	.121	.124	.127	.130	.133	.136	.139	.142
1.2	.115	.118	.120	.123	.126	.129	.132	.135	.138	.141	.145
1.4	.117	.120	.122	.125	.128	.131	.134	.137	.141	.144	.147
1.6	.119	.122	.124	.127	.130	.133	.136	.140	.143	.146	.150
1.8	.121	.124	.127	.129	.133	.136	.139	.142	.145	.149	.152
2.0	.123	.126	.129	.132	.135	.138	.141	.144	.148	.151	.155
2.2	.125	.128	.131	.134	.137	.140	.143	.147	.150	.154	.157
2.4	.127	.130	.133	.136	.139	.142	.146	.149	.153	.156	.160
2.6	.129	.132	.135	.138	.142	.145	.148	.152	.155	.159	.163
2.8	.131	.134	.137	.141	.144	.147	.151	.154	.158	.161	.165
3.0	.133	.137	.140	.143	.146	.150	.153	.157	.160	.164	.168
3.2	.136	.139	.142	.145	.149	.152	.156	.159	.163	.167	.171
3.4	.138	.141	.144	.148	.151	.155	.158	.162	.166	.170	.174
3.6	.140	.143	.147	.150	.154	.157	.161	.165	.169	.172	.176
3.8	.143	.146	.149	.153	.156	.160	.164	.167	.171	.175	.179
4.0	.145	.148	.152	.155	.159	.163	.166	.170	.174	.178	.182
4.2	.147	.151	.154	.158	.161	.165	.169	.173	.177	.181	.185
4.4	.150	.153	.157	.160	.164	.168	.172	.176	.180	.184	.188
4.6	.152	.156	.159	.163	.167	.171	.175	.179	.183	.187	.191
4.8	.155	.158	.162	.166	.170	.173	.177	.182	.186	.190	.195
5.0	.157	.161	.165	.168	.172	.176	.180	.185	.189	.193	.198
5.2	.160	.163	.167	.171	.175	.179	.183	.188	.192	.196	.201
5.4	.162	.166	.170	.174	.178	.182	.186	.191	.195	.200	.204
5.6	.165	.169	.173	.177	.181	.185	.189	.194	.198	.203	.208
5.8	.168	.172	.176	.180	.184	.188	.192	.197	.201	.206	.211
6.0	.170	.174	.178	.183	.187	.191	.196	.200	.205	.210	.214
6.2	.173	.177	.181	.185	.190	.194	.199	.203	.208	.213	.218
6.4	.176	.180	.184	.188	.193	.197	.202	.207	.211	.216	.221
6.6	.179	.183	.187	.192	.196	.201	.205	.210	.215	.220	.225
6.8	.182	.186	.190	.195	.199	.204	.209	.213	.218	.223	.229
7.0	.185	.189	.193	.198	.202	.207	.212	.217	.222	.227	.232

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.10	7.11	7.12	7.13	7.14	7.15	7.16	7.17	7.18	7.19	7.20
7.0	.185	.189	.193	.198	.202	.207	.212	.217	.222	.227	.232
7.2	.188	.192	.196	.201	.206	.210	.215	.220	.225	.231	.236
7.4	.191	.195	.200	.204	.209	.214	.219	.224	.229	.234	.240
7.6	.194	.198	.203	.207	.212	.217	.222	.227	.233	.238	.244
7.8	.197	.201	.206	.211	.216	.221	.226	.231	.236	.242	.248
8.0	.200	.205	.209	.214	.219	.224	.229	.235	.240	.246	.252
8.2	.203	.208	.213	.218	.223	.228	.233	.239	.244	.250	.256
8.4	.206	.211	.216	.221	.226	.231	.237	.242	.248	.254	.260
8.6	.210	.214	.219	.225	.230	.235	.241	.246	.252	.258	.264
8.8	.213	.218	.223	.228	.233	.239	.244	.250	.256	.262	.268
9.0	.216	.221	.226	.232	.237	.243	.248	.254	.260	.266	.272
9.2	.220	.225	.230	.235	.241	.246	.252	.258	.264	.270	.276
9.4	.223	.228	.234	.239	.245	.250	.256	.262	.268	.274	.281
9.6	.227	.232	.237	.243	.249	.254	.260	.266	.272	.279	.285
9.8	.230	.236	.241	.247	.253	.258	.264	.271	.277	.283	.290
10.0	.234	.239	.245	.251	.256	.262	.269	.275	.281	.288	.294
10.2	.238	.243	.249	.255	.261	.267	.273	.279	.286	.292	.299
10.4	.241	.247	.253	.259	.265	.271	.277	.283	.290	.297	.304
10.6	.245	.251	.257	.263	.269	.275	.281	.288	.295	.301	.308
10.8	.249	.255	.261	.267	.273	.279	.286	.292	.299	.306	.313
11.0	.253	.259	.265	.271	.277	.284	.290	.297	.304	.311	.318
11.2	.257	.263	.269	.275	.282	.288	.295	.302	.309	.316	.323
11.4	.261	.267	.273	.279	.286	.293	.299	.306	.313	.321	.328
11.6	.265	.271	.277	.284	.290	.297	.304	.311	.318	.326	.333
11.8	.269	.275	.282	.288	.295	.302	.309	.316	.323	.331	.339
12.0	.273	.280	.286	.293	.300	.306	.314	.321	.328	.336	.344
12.2	.277	.284	.291	.297	.304	.311	.318	.326	.333	.341	.349
12.4	.282	.288	.295	.302	.309	.316	.323	.331	.339	.346	.355
12.6	.286	.293	.300	.307	.314	.321	.328	.336	.344	.352	.360
12.8	.291	.297	.304	.311	.319	.326	.333	.341	.349	.357	.366
13.0	.295	.302	.309	.316	.323	.331	.339	.346	.355	.363	.371
13.2	.300	.307	.314	.321	.328	.336	.344	.352	.360	.368	.377
13.4	.304	.311	.319	.326	.333	.341	.349	.357	.366	.374	.383
13.6	.309	.316	.323	.331	.339	.346	.354	.363	.371	.380	.389
13.8	.314	.321	.328	.336	.344	.352	.360	.368	.377	.386	.395
14.0	.318	.326	.333	.341	.349	.357	.365	.374	.383	.391	.401

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.10	7.11	7.12	7.13	7.14	7.15	7.16	7.17	7.18	7.19	7.20
14.0	.318	.326	.333	.341	.349	.357	.365	.374	.383	.391	.401
14.2	.323	.331	.338	.346	.354	.363	.371	.380	.388	.397	.407
14.4	.328	.336	.344	.352	.360	.368	.377	.385	.394	.404	.413
14.6	.333	.341	.349	.357	.365	.374	.382	.391	.400	.410	.419
14.8	.338	.346	.354	.362	.371	.379	.388	.397	.406	.416	.426
15.0	.343	.351	.360	.368	.376	.385	.394	.403	.413	.422	.432
15.2	.349	.357	.365	.374	.382	.391	.400	.409	.419	.429	.439
15.4	.354	.362	.371	.379	.388	.397	.406	.416	.425	.435	.445
15.6	.359	.368	.376	.385	.394	.403	.412	.422	.432	.442	.452
15.8	.365	.373	.382	.391	.400	.409	.419	.428	.438	.448	.459
16.0	.370	.379	.388	.397	.406	.415	.425	.435	.445	.455	.466
16.2	.376	.385	.393	.403	.412	.422	.431	.441	.452	.462	.473
16.4	.382	.390	.399	.409	.418	.428	.438	.448	.458	.469	.480
16.6	.387	.396	.405	.415	.424	.434	.444	.455	.465	.476	.487
16.8	.393	.402	.411	.421	.431	.441	.451	.461	.472	.483	.494
17.0	.399	.408	.418	.427	.437	.447	.458	.468	.479	.490	.502
17.2	.405	.414	.424	.434	.444	.454	.465	.475	.486	.498	.509
17.4	.411	.420	.430	.440	.450	.461	.472	.482	.494	.505	.517
17.6	.417	.427	.437	.447	.457	.468	.479	.490	.501	.513	.525
17.8	.423	.433	.443	.453	.464	.475	.486	.497	.508	.520	.532
18.0	.430	.440	.450	.460	.471	.482	.493	.504	.516	.528	.540
18.2	.436	.446	.456	.467	.478	.489	.500	.512	.524	.536	.548
18.4	.442	.453	.463	.474	.485	.496	.508	.519	.531	.544	.556
18.6	.449	.459	.470	.481	.492	.504	.515	.527	.539	.552	.565
18.8	.456	.466	.477	.488	.499	.511	.523	.535	.547	.560	.573
19.0	.462	.473	.484	.495	.507	.519	.531	.543	.555	.568	.581
19.2	.469	.480	.491	.503	.514	.526	.538	.551	.564	.577	.590
19.4	.476	.487	.498	.510	.522	.534	.546	.559	.572	.585	.599
19.6	.483	.494	.506	.517	.529	.542	.554	.567	.580	.594	.607
19.8	.490	.502	.513	.525	.537	.550	.562	.575	.589	.602	.616
20.0	.497	.509	.521	.533	.545	.558	.571	.584	.597	.611	.625
20.2	.505	.516	.528	.541	.553	.566	.579	.592	.606	.620	.635
20.4	.512	.524	.536	.548	.561	.574	.587	.601	.615	.629	.644
20.6	.520	.532	.544	.556	.569	.583	.596	.610	.624	.638	.653
20.8	.527	.539	.552	.565	.578	.591	.605	.619	.633	.648	.663
21.0	.535	.547	.560	.573	.586	.600	.614	.628	.642	.657	.672

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.10	7.11	7.12	7.13	7.14	7.15	7.16	7.17	7.18	7.19	7.20
21.0	.535	.547	.560	.573	.586	.600	.614	.628	.642	.657	.672
21.2	.543	.555	.568	.581	.595	.608	.622	.637	.652	.667	.682
21.4	.550	.563	.576	.590	.603	.617	.631	.646	.661	.676	.692
21.6	.558	.571	.585	.598	.612	.626	.641	.655	.671	.686	.702
21.8	.567	.580	.593	.607	.621	.635	.650	.665	.680	.696	.712
22.0	.575	.588	.602	.616	.630	.644	.659	.675	.690	.706	.722
22.2	.583	.596	.610	.624	.639	.654	.669	.684	.700	.716	.733
22.4	.591	.605	.619	.633	.648	.663	.678	.694	.710	.727	.743
22.6	.600	.614	.628	.643	.657	.673	.688	.704	.720	.737	.754
22.8	.609	.623	.637	.652	.667	.682	.698	.714	.731	.748	.765
23.0	.617	.632	.646	.661	.676	.692	.708	.724	.741	.758	.776
23.2	.626	.641	.655	.671	.686	.702	.718	.735	.752	.769	.787
23.4	.635	.650	.665	.680	.696	.712	.728	.745	.763	.780	.798
23.6	.644	.659	.674	.690	.706	.722	.739	.756	.773	.791	.810
23.8	.653	.668	.684	.700	.716	.732	.749	.767	.784	.803	.821
24.0	.663	.678	.694	.710	.726	.743	.760	.778	.796	.814	.833
24.2	.672	.688	.704	.720	.736	.753	.771	.789	.807	.826	.845
24.4	.682	.697	.714	.730	.747	.764	.782	.800	.818	.837	.857
24.6	.691	.707	.724	.740	.757	.775	.793	.811	.830	.849	.869
24.8	.701	.717	.734	.751	.768	.786	.804	.823	.842	.861	.881
25.0	.711	.727	.744	.761	.779	.797	.815	.834	.854	.873	.893
25.2	.721	.738	.755	.772	.790	.808	.827	.846	.866	.886	.906
25.4	.731	.748	.765	.783	.801	.820	.839	.858	.878	.898	.919
25.6	.741	.759	.776	.794	.812	.831	.850	.870	.890	.911	.932
25.8	.752	.769	.787	.805	.824	.843	.862	.882	.903	.923	.945
26.0	.762	.780	.798	.817	.835	.855	.874	.895	.915	.936	.958
26.2	.773	.791	.809	.828	.847	.867	.887	.907	.928	.950	.971
26.4	.784	.802	.821	.840	.859	.879	.899	.920	.941	.963	.985
26.6	.795	.813	.832	.851	.871	.891	.912	.933	.954	.976	.999
26.8	.806	.825	.844	.863	.883	.904	.924	.946	.968	.990	1.013
27.0	.817	.836	.855	.875	.895	.916	.937	.959	.981	1.004	1.027
27.2	.829	.848	.867	.887	.908	.929	.950	.972	.995	1.018	1.041
27.4	.840	.860	.879	.900	.920	.942	.963	.986	1.008	1.032	1.055
27.6	.852	.872	.892	.912	.933	.955	.977	.999	1.022	1.046	1.070
27.8	.864	.884	.904	.925	.946	.968	.990	1.013	1.037	1.060	1.085
28.0	.876	.896	.916	.938	.959	.981	1.004	1.027	1.051	1.075	1.100

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.10	7.11	7.12	7.13	7.14	7.15	7.16	7.17	7.18	7.19	7.20
28.0	.876	.896	.916	.938	.959	.981	1.004	1.027	1.051	1.075	1.100
28.2	.888	.908	.929	.951	.973	.995	1.018	1.041	1.065	1.090	1.115
28.4	.900	.921	.942	.964	.986	1.009	1.032	1.056	1.080	1.105	1.130
28.6	.912	.933	.955	.977	.999	1.023	1.046	1.070	1.095	1.120	1.146
28.8	.925	.946	.968	.990	1.013	1.037	1.060	1.085	1.110	1.135	1.162
29.0	.938	.959	.981	1.004	1.027	1.051	1.075	1.100	1.125	1.151	1.178
29.2	.950	.972	.995	1.018	1.041	1.065	1.090	1.115	1.141	1.167	1.194
29.4	.963	.986	1.008	1.032	1.055	1.080	1.105	1.130	1.156	1.183	1.210
29.6	.977	.999	1.022	1.046	1.070	1.095	1.120	1.146	1.172	1.199	1.226
29.8	.990	1.013	1.036	1.060	1.084	1.109	1.135	1.161	1.188	1.215	1.243
30.0	1.00	1.03	1.05	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26
30.2	1.02	1.04	1.06	1.09	1.11	1.14	1.17	1.19	1.22	1.25	1.28
30.4	1.03	1.05	1.08	1.10	1.13	1.16	1.18	1.21	1.24	1.27	1.29
30.6	1.04	1.07	1.09	1.12	1.14	1.17	1.20	1.23	1.25	1.28	1.31
30.8	1.06	1.08	1.11	1.13	1.16	1.19	1.21	1.24	1.27	1.30	1.33
31.0	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26	1.29	1.32	1.35
31.2	1.09	1.11	1.14	1.16	1.19	1.22	1.25	1.28	1.31	1.34	1.37
31.4	1.10	1.13	1.15	1.18	1.21	1.24	1.26	1.29	1.32	1.35	1.38
31.6	1.12	1.14	1.17	1.20	1.22	1.25	1.28	1.31	1.34	1.37	1.40
31.8	1.13	1.16	1.19	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42
32.0	1.15	1.17	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44
32.2	1.16	1.19	1.22	1.25	1.27	1.30	1.33	1.36	1.40	1.43	1.46
32.4	1.18	1.21	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.45	1.48
32.6	1.19	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.43	1.47	1.50
32.8	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.45	1.49	1.52
33.0	1.23	1.25	1.28	1.31	1.34	1.37	1.41	1.44	1.47	1.50	1.54
33.2	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.46	1.49	1.52	1.56
33.4	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.48	1.51	1.55	1.58
33.6	1.28	1.31	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60
33.8	1.29	1.32	1.35	1.38	1.42	1.45	1.48	1.52	1.55	1.59	1.62
34.0	1.31	1.34	1.37	1.40	1.43	1.47	1.50	1.54	1.57	1.61	1.64
34.2	1.33	1.36	1.39	1.42	1.45	1.49	1.52	1.56	1.59	1.63	1.67
34.4	1.35	1.38	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65	1.69
34.6	1.36	1.39	1.43	1.46	1.49	1.53	1.56	1.60	1.63	1.67	1.71
34.8	1.38	1.41	1.44	1.48	1.51	1.55	1.58	1.62	1.66	1.69	1.73
35.0	1.40	1.43	1.46	1.50	1.53	1.57	1.60	1.64	1.68	1.72	1.75

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.10	7.11	7.12	7.13	7.14	7.15	7.16	7.17	7.18	7.19	7.20
35.0	1.40	1.43	1.46	1.50	1.53	1.57	1.60	1.64	1.68	1.72	1.75
35.2	1.42	1.45	1.48	1.52	1.55	1.59	1.62	1.66	1.70	1.74	1.78
35.4	1.44	1.47	1.50	1.54	1.57	1.61	1.65	1.68	1.72	1.76	1.80
35.6	1.45	1.49	1.52	1.56	1.59	1.63	1.67	1.70	1.74	1.78	1.82
35.8	1.47	1.51	1.54	1.58	1.61	1.65	1.69	1.73	1.77	1.81	1.85
36.0	1.49	1.53	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87
36.2	1.51	1.55	1.58	1.62	1.66	1.69	1.73	1.77	1.81	1.85	1.90
36.4	1.53	1.57	1.60	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.92
36.6	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.95
36.8	1.57	1.61	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.93	1.97
37.0	1.59	1.63	1.67	1.70	1.74	1.78	1.82	1.87	1.91	1.95	2.00
37.2	1.61	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.93	1.98	2.02
37.4	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.96	2.00	2.05
37.6	1.65	1.69	1.73	1.77	1.81	1.85	1.90	1.94	1.98	2.03	2.07
37.8	1.68	1.71	1.75	1.79	1.83	1.88	1.92	1.96	2.01	2.05	2.10
38.0	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.99	2.03	2.08	2.13
38.2	1.72	1.76	1.80	1.84	1.88	1.93	1.97	2.01	2.06	2.11	2.16
38.4	1.74	1.78	1.82	1.86	1.91	1.95	1.99	2.04	2.09	2.13	2.18
38.6	1.76	1.80	1.85	1.89	1.93	1.97	2.02	2.07	2.11	2.16	2.21
38.8	1.79	1.83	1.87	1.91	1.96	2.00	2.05	2.09	2.14	2.19	2.24
39.0	1.81	1.85	1.89	1.94	1.98	2.03	2.07	2.12	2.17	2.22	2.27
39.2	1.83	1.87	1.92	1.96	2.01	2.05	2.10	2.15	2.19	2.24	2.30
39.4	1.86	1.90	1.94	1.99	2.03	2.08	2.12	2.17	2.22	2.27	2.32
39.6	1.88	1.92	1.97	2.01	2.06	2.10	2.15	2.20	2.25	2.30	2.35
39.8	1.90	1.95	1.99	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.38
40.0	1.93	1.97	2.02	2.06	2.11	2.16	2.21	2.26	2.31	2.36	2.41

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.20	7.21	7.22	7.23	7.24	7.25	7.26	7.27	7.28	7.29	7.30
.0	.131	.134	.137	.140	.143	.147	.150	.154	.157	.161	.165
.2	.133	.136	.139	.143	.146	.149	.153	.156	.160	.164	.167
.4	.135	.138	.142	.145	.148	.152	.155	.159	.163	.166	.170
.6	.138	.141	.144	.147	.151	.154	.158	.162	.165	.169	.173
.8	.140	.143	.147	.150	.153	.157	.161	.164	.168	.172	.176
1.0	.142	.146	.149	.152	.156	.160	.163	.167	.171	.175	.179
1.2	.145	.148	.152	.155	.159	.162	.166	.170	.174	.178	.182
1.4	.147	.151	.154	.158	.161	.165	.169	.173	.177	.181	.185
1.6	.150	.153	.157	.160	.164	.168	.172	.176	.180	.184	.188
1.8	.152	.156	.159	.163	.167	.171	.175	.179	.183	.187	.191
2.0	.155	.158	.162	.166	.170	.173	.178	.182	.186	.190	.195
2.2	.157	.161	.165	.168	.172	.176	.180	.185	.189	.193	.198
2.4	.160	.164	.167	.171	.175	.179	.183	.188	.192	.197	.201
2.6	.163	.166	.170	.174	.178	.182	.187	.191	.195	.200	.205
2.8	.165	.169	.173	.177	.181	.185	.190	.194	.199	.203	.208
3.0	.168	.172	.176	.180	.184	.188	.193	.197	.202	.207	.211
3.2	.171	.175	.179	.183	.187	.192	.196	.201	.205	.210	.215
3.4	.174	.178	.182	.186	.190	.195	.199	.204	.209	.213	.218
3.6	.176	.181	.185	.189	.193	.198	.203	.207	.212	.217	.222
3.8	.179	.184	.188	.192	.197	.201	.206	.211	.216	.221	.226
4.0	.182	.187	.191	.195	.200	.204	.209	.214	.219	.224	.229
4.2	.185	.190	.194	.199	.203	.208	.213	.218	.223	.228	.233
4.4	.188	.193	.197	.202	.206	.211	.216	.221	.226	.232	.237
4.6	.191	.196	.200	.205	.210	.215	.220	.225	.230	.235	.241
4.8	.195	.199	.204	.208	.213	.218	.223	.229	.234	.239	.245
5.0	.198	.202	.207	.212	.217	.222	.227	.232	.238	.243	.249
5.2	.201	.206	.210	.215	.220	.225	.231	.236	.242	.247	.253
5.4	.204	.209	.214	.219	.224	.229	.234	.240	.245	.251	.257
5.6	.208	.212	.217	.222	.228	.233	.238	.244	.249	.255	.261
5.8	.211	.216	.221	.226	.231	.237	.242	.248	.254	.259	.265
6.0	.214	.219	.224	.230	.235	.240	.246	.252	.258	.264	.270
6.2	.218	.223	.228	.233	.239	.244	.250	.256	.262	.268	.274
6.4	.221	.227	.232	.237	.243	.248	.254	.260	.266	.272	.279
6.6	.225	.230	.236	.241	.247	.252	.258	.264	.270	.277	.283
6.8	.229	.234	.239	.245	.251	.256	.262	.268	.275	.281	.288
7.0	.232	.238	.243	.249	.255	.261	.267	.273	.279	.286	.292

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.20	7.21	7.22	7.23	7.24	7.25	7.26	7.27	7.28	7.29	7.30
7.0	.232	.238	.243	.249	.255	.261	.267	.273	.279	.286	.292
7.2	.236	.241	.247	.253	.259	.265	.271	.277	.284	.290	.297
7.4	.240	.245	.251	.257	.263	.269	.275	.282	.288	.295	.302
7.6	.244	.249	.255	.261	.267	.273	.280	.286	.293	.300	.307
7.8	.248	.253	.259	.265	.271	.278	.284	.291	.297	.304	.311
8.0	.252	.257	.263	.269	.276	.282	.289	.295	.302	.309	.316
8.2	.256	.261	.268	.274	.280	.287	.293	.300	.307	.314	.321
8.4	.260	.266	.272	.278	.285	.291	.298	.305	.312	.319	.327
8.6	.264	.270	.276	.283	.289	.296	.303	.310	.317	.324	.332
8.8	.268	.274	.281	.287	.294	.301	.307	.315	.322	.329	.337
9.0	.272	.278	.285	.292	.298	.305	.312	.320	.327	.335	.342
9.2	.276	.283	.289	.296	.303	.310	.317	.325	.332	.340	.348
9.4	.281	.287	.294	.301	.308	.315	.322	.330	.337	.345	.353
9.6	.285	.292	.299	.306	.313	.320	.327	.335	.343	.351	.359
9.8	.290	.297	.303	.310	.318	.325	.333	.340	.348	.356	.365
10.0	.294	.301	.308	.315	.323	.330	.338	.346	.354	.362	.370
10.2	.299	.306	.313	.320	.328	.335	.343	.351	.359	.368	.376
10.4	.304	.311	.318	.325	.333	.341	.349	.357	.365	.373	.382
10.6	.308	.316	.323	.330	.338	.346	.354	.362	.371	.379	.388
10.8	.313	.321	.328	.336	.343	.351	.360	.368	.376	.385	.394
11.0	.318	.326	.333	.341	.349	.357	.365	.374	.382	.391	.400
11.2	.323	.331	.338	.346	.354	.362	.371	.379	.388	.397	.407
11.4	.328	.336	.344	.352	.360	.368	.377	.385	.394	.403	.413
11.6	.333	.341	.349	.357	.365	.374	.383	.391	.400	.410	.419
11.8	.339	.346	.354	.363	.371	.380	.388	.397	.407	.416	.426
12.0	.344	.352	.360	.368	.377	.386	.394	.404	.413	.423	.432
12.2	.349	.357	.365	.374	.383	.392	.401	.410	.419	.429	.439
12.4	.355	.363	.371	.380	.389	.398	.407	.416	.426	.436	.446
12.6	.360	.368	.377	.386	.395	.404	.413	.423	.432	.443	.453
12.8	.366	.374	.383	.392	.401	.410	.419	.429	.439	.449	.460
13.0	.371	.380	.389	.398	.407	.416	.426	.436	.446	.456	.467
13.2	.377	.386	.395	.404	.413	.423	.432	.443	.453	.463	.474
13.4	.383	.392	.401	.410	.419	.429	.439	.449	.460	.470	.481
13.6	.389	.398	.407	.416	.426	.436	.446	.456	.467	.478	.489
13.8	.395	.404	.413	.423	.432	.442	.453	.463	.474	.485	.496
14.0	.401	.410	.419	.429	.439	.449	.460	.470	.481	.492	.504

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.20	7.21	7.22	7.23	7.24	7.25	7.26	7.27	7.28	7.29	7.30
14.0	.401	.410	.419	.429	.439	.449	.460	.470	.481	.492	.504
14.2	.407	.416	.426	.436	.446	.456	.467	.477	.489	.500	.511
14.4	.413	.422	.432	.442	.453	.463	.474	.485	.496	.507	.519
14.6	.419	.429	.439	.449	.459	.470	.481	.492	.504	.515	.527
14.8	.426	.435	.446	.456	.466	.477	.488	.500	.511	.523	.535
15.0	.432	.442	.452	.463	.473	.484	.496	.507	.519	.531	.543
15.2	.439	.449	.459	.470	.481	.492	.503	.515	.527	.539	.551
15.4	.445	.456	.466	.477	.488	.499	.511	.523	.535	.547	.560
15.6	.452	.462	.473	.484	.495	.507	.519	.531	.543	.555	.568
15.8	.459	.469	.480	.491	.503	.514	.526	.539	.551	.564	.577
16.0	.466	.476	.488	.499	.510	.522	.534	.547	.559	.572	.586
16.2	.473	.484	.495	.506	.518	.530	.542	.555	.568	.581	.594
16.4	.480	.491	.502	.514	.526	.538	.551	.563	.576	.590	.603
16.6	.487	.498	.510	.522	.534	.546	.559	.572	.585	.598	.612
16.8	.494	.506	.517	.529	.542	.554	.567	.580	.594	.607	.622
17.0	.502	.513	.525	.537	.550	.563	.576	.589	.603	.617	.631
17.2	.509	.521	.533	.545	.558	.571	.584	.598	.612	.626	.640
17.4	.517	.529	.541	.554	.566	.580	.593	.607	.621	.635	.650
17.6	.525	.537	.549	.562	.575	.588	.602	.616	.630	.645	.659
17.8	.532	.545	.557	.570	.583	.597	.611	.625	.639	.654	.669
18.0	.540	.553	.566	.579	.592	.606	.620	.634	.649	.664	.679
18.2	.548	.561	.574	.587	.601	.615	.629	.644	.658	.674	.689
18.4	.556	.569	.582	.596	.610	.624	.638	.653	.668	.684	.699
18.6	.565	.578	.591	.605	.619	.633	.648	.663	.678	.694	.710
18.8	.573	.586	.600	.614	.628	.642	.657	.672	.688	.704	.720
19.0	.581	.595	.609	.623	.637	.652	.667	.682	.698	.714	.731
19.2	.590	.604	.618	.632	.647	.661	.677	.692	.708	.725	.742
19.4	.599	.613	.627	.641	.656	.671	.687	.703	.719	.735	.752
19.6	.607	.622	.636	.651	.666	.681	.697	.713	.729	.746	.764
19.8	.616	.631	.645	.660	.675	.691	.707	.723	.740	.757	.775
20.0	.625	.640	.655	.670	.685	.701	.717	.734	.751	.768	.786
20.2	.635	.649	.664	.680	.695	.711	.728	.745	.762	.780	.798
20.4	.644	.659	.674	.690	.705	.722	.738	.756	.773	.791	.809
20.6	.653	.668	.684	.700	.716	.732	.749	.767	.784	.802	.821
20.8	.663	.678	.694	.710	.726	.743	.760	.778	.796	.814	.833
21.0	.672	.688	.704	.720	.737	.754	.771	.789	.807	.826	.845

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.20	7.21	7.22	7.23	7.24	7.25	7.26	7.27	7.28	7.29	7.30
21.0	.672	.688	.704	.720	.737	.754	.771	.789	.807	.826	.845
21.2	.682	.698	.714	.731	.747	.765	.782	.800	.819	.838	.857
21.4	.692	.708	.724	.741	.758	.776	.794	.812	.831	.850	.870
21.6	.702	.718	.735	.752	.769	.787	.805	.824	.843	.862	.882
21.8	.712	.729	.745	.763	.780	.798	.817	.836	.855	.875	.895
22.0	.722	.739	.756	.774	.792	.810	.829	.848	.867	.887	.908
22.2	.733	.750	.767	.785	.803	.822	.840	.860	.880	.900	.921
22.4	.743	.761	.778	.796	.815	.833	.853	.872	.892	.913	.934
22.6	.754	.771	.789	.808	.826	.845	.865	.885	.905	.926	.947
22.8	.765	.783	.801	.819	.838	.857	.877	.897	.918	.939	.961
23.0	.776	.794	.812	.831	.850	.870	.890	.910	.931	.953	.975
23.2	.787	.805	.824	.843	.862	.882	.902	.923	.945	.966	.989
23.4	.798	.817	.835	.855	.875	.895	.915	.936	.958	.980	1.003
23.6	.810	.828	.847	.867	.887	.907	.928	.950	.972	.994	1.017
23.8	.821	.840	.859	.879	.900	.920	.942	.963	.986	1.008	1.032
24.0	.833	.852	.872	.892	.912	.933	.955	.977	1.000	1.023	1.046
24.2	.845	.864	.884	.904	.925	.947	.969	.991	1.014	1.037	1.061
24.4	.857	.876	.897	.917	.938	.960	.982	1.005	1.028	1.052	1.076
24.6	.869	.889	.909	.930	.952	.974	.996	1.019	1.043	1.067	1.091
24.8	.881	.901	.922	.943	.965	.987	1.010	1.033	1.057	1.082	1.107
25.0	.893	.914	.935	.957	.979	1.001	1.024	1.048	1.072	1.097	1.122
25.2	.906	.927	.948	.970	.993	1.015	1.039	1.063	1.087	1.112	1.138
25.4	.919	.940	.962	.984	1.007	1.030	1.053	1.078	1.103	1.128	1.154
25.6	.932	.953	.975	.998	1.021	1.044	1.068	1.093	1.118	1.144	1.170
25.8	.945	.967	.989	1.012	1.035	1.059	1.083	1.108	1.134	1.160	1.186
26.0	.958	.980	1.003	1.026	1.049	1.074	1.098	1.124	1.150	1.176	1.203
26.2	.971	.994	1.017	1.040	1.064	1.089	1.114	1.139	1.166	1.192	1.220
26.4	.985	1.008	1.031	1.055	1.079	1.104	1.129	1.155	1.182	1.209	1.237
26.6	.999	1.022	1.045	1.069	1.094	1.119	1.145	1.171	1.198	1.226	1.254
26.8	1.01	1.04	1.06	1.08	1.11	1.13	1.16	1.19	1.21	1.24	1.27
27.0	1.03	1.05	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26	1.29
27.2	1.04	1.06	1.09	1.11	1.14	1.17	1.19	1.22	1.25	1.28	1.31
27.4	1.06	1.08	1.10	1.13	1.16	1.18	1.21	1.24	1.27	1.30	1.33
27.6	1.07	1.09	1.12	1.15	1.17	1.20	1.23	1.25	1.28	1.31	1.34
27.8	1.08	1.11	1.14	1.16	1.19	1.22	1.24	1.27	1.30	1.33	1.36
28.0	1.10	1.13	1.15	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.20	7.21	7.22	7.23	7.24	7.25	7.26	7.27	7.28	7.29	7.30
28.0	1.10	1.13	1.15	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38
28.2	1.11	1.14	1.17	1.19	1.22	1.25	1.28	1.31	1.34	1.37	1.40
28.4	1.13	1.16	1.18	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42
28.6	1.15	1.17	1.20	1.23	1.26	1.28	1.31	1.34	1.37	1.41	1.44
28.8	1.16	1.19	1.22	1.24	1.27	1.30	1.33	1.36	1.39	1.43	1.46
29.0	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.48
29.2	1.19	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.43	1.46	1.50
29.4	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.45	1.48	1.52
29.6	1.23	1.25	1.28	1.31	1.34	1.37	1.41	1.44	1.47	1.50	1.54
29.8	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.46	1.49	1.53	1.56
30.0	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.48	1.51	1.55	1.58
30.2	1.28	1.31	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60
30.4	1.29	1.32	1.35	1.39	1.42	1.45	1.48	1.52	1.55	1.59	1.62
30.6	1.31	1.34	1.37	1.40	1.44	1.47	1.50	1.54	1.57	1.61	1.65
30.8	1.33	1.36	1.39	1.42	1.46	1.49	1.52	1.56	1.59	1.63	1.67
31.0	1.35	1.38	1.41	1.44	1.48	1.51	1.54	1.58	1.62	1.65	1.69
31.2	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60	1.64	1.68	1.71
31.4	1.38	1.42	1.45	1.48	1.52	1.55	1.59	1.62	1.66	1.70	1.74
31.6	1.40	1.44	1.47	1.50	1.54	1.57	1.61	1.64	1.68	1.72	1.76
31.8	1.42	1.45	1.49	1.52	1.56	1.59	1.63	1.67	1.70	1.74	1.78
32.0	1.44	1.47	1.51	1.54	1.58	1.61	1.65	1.69	1.73	1.77	1.81
32.2	1.46	1.49	1.53	1.56	1.60	1.64	1.67	1.71	1.75	1.79	1.83
32.4	1.48	1.51	1.55	1.58	1.62	1.66	1.69	1.73	1.77	1.81	1.86
32.6	1.50	1.53	1.57	1.60	1.64	1.68	1.72	1.76	1.80	1.84	1.88
32.8	1.52	1.55	1.59	1.63	1.66	1.70	1.74	1.78	1.82	1.86	1.91
33.0	1.54	1.57	1.61	1.65	1.69	1.72	1.76	1.80	1.85	1.89	1.93
33.2	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.96
33.4	1.58	1.62	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.94	1.98
33.6	1.60	1.64	1.68	1.71	1.75	1.79	1.83	1.88	1.92	1.96	2.01
33.8	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.99	2.03
34.0	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.93	1.97	2.01	2.06
34.2	1.67	1.70	1.74	1.78	1.82	1.87	1.91	1.95	2.00	2.04	2.09
34.4	1.69	1.73	1.77	1.81	1.85	1.89	1.93	1.98	2.02	2.07	2.12
34.6	1.71	1.75	1.79	1.83	1.87	1.91	1.96	2.00	2.05	2.10	2.14
34.8	1.73	1.77	1.81	1.85	1.90	1.94	1.98	2.03	2.08	2.12	2.17
35.0	1.75	1.80	1.84	1.88	1.92	1.96	2.01	2.06	2.10	2.15	[illegible]

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.20	7.21	7.22	7.23	7.24	7.25	7.26	7.27	7.28	7.29	7.30
35.0	1.75	1.80	1.84	1.88	1.92	1.96	2.01	2.06	2.10	2.15	2.20
35.2	1.78	1.82	1.86	1.90	1.95	1.99	2.04	2.08	2.13	2.18	2.23
35.4	1.80	1.84	1.88	1.93	1.97	2.02	2.06	2.11	2.16	2.21	2.26
35.6	1.82	1.87	1.91	1.95	2.00	2.04	2.09	2.14	2.19	2.24	2.29
35.8	1.85	1.89	1.93	1.98	2.02	2.07	2.12	2.16	2.21	2.26	2.32
36.0	1.87	1.92	1.96	2.00	2.05	2.10	2.14	2.19	2.24	2.29	2.35
36.2	1.90	1.94	1.98	2.03	2.08	2.12	2.17	2.22	2.27	2.32	2.38
36.4	1.92	1.97	2.01	2.06	2.10	2.15	2.20	2.25	2.30	2.35	2.41
36.6	1.95	1.99	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.44
36.8	1.97	2.02	2.06	2.11	2.16	2.21	2.26	2.31	2.36	2.41	2.47
37.0	2.00	2.04	2.09	2.14	2.18	2.23	2.29	2.34	2.39	2.45	2.50
37.2	2.02	2.07	2.12	2.16	2.21	2.26	2.31	2.37	2.42	2.48	2.53
37.4	2.05	2.09	2.14	2.19	2.24	2.29	2.34	2.40	2.45	2.51	2.56
37.6	2.07	2.12	2.17	2.22	2.27	2.32	2.37	2.43	2.48	2.54	2.60
37.8	2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.46	2.52	2.57	2.63
38.0	2.13	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55	2.61	2.66
38.2	2.16	2.20	2.25	2.31	2.36	2.41	2.47	2.52	2.58	2.64	2.70
38.4	2.18	2.23	2.28	2.34	2.39	2.44	2.50	2.55	2.61	2.67	2.73
38.6	2.21	2.26	2.31	2.36	2.42	2.47	2.53	2.59	2.65	2.71	2.77
38.8	2.24	2.29	2.34	2.39	2.45	2.50	2.56	2.62	2.68	2.74	2.80
39.0	2.27	2.32	2.37	2.43	2.48	2.54	2.59	2.65	2.71	2.77	2.84
39.2	2.30	2.35	2.40	2.46	2.51	2.57	2.63	2.69	2.75	2.81	2.87
39.4	2.32	2.38	2.43	2.49	2.54	2.60	2.66	2.72	2.78	2.84	2.91
39.6	2.35	2.41	2.46	2.52	2.58	2.63	2.69	2.75	2.82	2.88	2.95
39.8	2.38	2.44	2.49	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98
40.0	2.41	2.47	2.52	2.58	2.64	2.70	2.76	2.82	2.89	2.95	3.02

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.30	7.31	7.32	7.33	7.34	7.35	7.36	7.37	7.38	7.39	7.40
.0	.165	.169	.172	.176	.181	.185	.189	.193	.198	.203	.207
.2	.167	.171	.175	.179	.184	.188	.192	.197	.201	.206	.211
.4	.170	.174	.178	.182	.187	.191	.196	.200	.205	.209	.214
.6	.173	.177	.181	.186	.190	.194	.199	.203	.208	.213	.218
.8	.176	.180	.184	.189	.193	.198	.202	.207	.212	.217	.222
1.0	.179	.183	.188	.192	.196	.201	.206	.210	.215	.220	.225
1.2	.182	.186	.191	.195	.200	.204	.209	.214	.219	.224	.229
1.4	.185	.189	.194	.198	.203	.208	.213	.217	.223	.228	.233
1.6	.188	.193	.197	.202	.206	.211	.216	.221	.226	.232	.237
1.8	.191	.196	.200	.205	.210	.215	.220	.225	.230	.235	.241
2.0	.195	.199	.204	.209	.213	.218	.223	.229	.234	.239	.245
2.2	.198	.202	.207	.212	.217	.222	.227	.232	.238	.243	.249
2.4	.201	.206	.211	.216	.221	.226	.231	.236	.242	.247	.253
2.6	.205	.209	.214	.219	.224	.229	.235	.240	.246	.251	.257
2.8	.208	.213	.218	.223	.228	.233	.239	.244	.250	.256	.262
3.0	.211	.216	.221	.226	.232	.237	.243	.248	.254	.260	.266
3.2	.215	.220	.225	.230	.236	.241	.247	.252	.258	.264	.270
3.4	.218	.223	.229	.234	.239	.245	.251	.257	.262	.269	.275
3.6	.222	.227	.232	.238	.243	.249	.255	.261	.267	.273	.279
3.8	.226	.231	.236	.242	.247	.253	.259	.265	.271	.277	.284
4.0	.229	.235	.240	.246	.251	.257	.263	.269	.276	.282	.289
4.2	.233	.239	.244	.250	.256	.262	.268	.274	.280	.287	.293
4.4	.237	.242	.248	.254	.260	.266	.272	.278	.285	.291	.298
4.6	.241	.246	.252	.258	.264	.270	.276	.283	.289	.296	.303
4.8	.245	.251	.256	.262	.268	.275	.281	.288	.294	.301	.308
5.0	.249	.255	.261	.267	.273	.279	.286	.292	.299	.306	.313
5.2	.253	.259	.265	.271	.277	.284	.290	.297	.304	.311	.318
5.4	.257	.263	.269	.275	.282	.288	.295	.302	.309	.316	.323
5.6	.261	.267	.273	.280	.286	.293	.300	.307	.314	.321	.329
5.8	.265	.272	.278	.284	.291	.298	.305	.312	.319	.326	.334
6.0	.270	.276	.282	.289	.296	.303	.310	.317	.324	.332	.339
6.2	.274	.280	.287	.294	.300	.307	.315	.322	.329	.337	.345
6.4	.279	.285	.292	.298	.305	.312	.320	.327	.335	.342	.350
6.6	.283	.290	.296	.303	.310	.317	.325	.332	.340	.348	.356
6.8	.288	.294	.301	.308	.315	.323	.330	.338	.346	.354	.362
7.0	.292	.299	.306	.313	.320	.328	.335	.343	.351	.359	.368

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.30	7.31	7.32	7.33	7.34	7.35	7.36	7.37	7.38	7.39	7.40
7.0	.292	.299	.306	.313	.320	.328	.335	.343	.351	.359	.368
7.2	.297	.304	.311	.318	.325	.333	.341	.349	.357	.365	.374
7.4	.302	.309	.316	.323	.331	.338	.346	.354	.362	.371	.380
7.6	.307	.314	.321	.328	.336	.344	.352	.360	.368	.377	.386
7.8	.311	.319	.326	.334	.341	.349	.357	.366	.374	.383	.392
8.0	.316	.324	.331	.339	.347	.355	.363	.372	.380	.389	.398
8.2	.321	.329	.337	.344	.352	.361	.369	.377	.386	.395	.404
8.4	.327	.334	.342	.350	.358	.366	.375	.383	.392	.401	.411
8.6	.332	.339	.347	.355	.364	.372	.381	.390	.399	.408	.417
8.8	.337	.345	.353	.361	.369	.378	.387	.396	.405	.414	.424
9.0	.342	.350	.358	.367	.375	.384	.393	.402	.411	.421	.431
9.2	.348	.356	.364	.373	.381	.390	.399	.408	.418	.428	.437
9.4	.353	.362	.370	.379	.387	.396	.405	.415	.424	.434	.444
9.6	.359	.367	.376	.384	.393	.403	.412	.421	.431	.441	.451
9.8	.365	.373	.382	.391	.400	.409	.418	.428	.438	.448	.459
10.0	.370	.379	.388	.397	.406	.415	.425	.435	.445	.455	.466
10.2	.376	.385	.394	.403	.412	.422	.432	.442	.452	.462	.473
10.4	.382	.391	.400	.409	.419	.428	.438	.449	.459	.470	.480
10.6	.388	.397	.406	.416	.425	.435	.445	.456	.466	.477	.488
10.8	.394	.403	.413	.422	.432	.442	.452	.463	.473	.484	.496
11.0	.400	.410	.419	.429	.439	.449	.459	.470	.481	.492	.503
11.2	.407	.416	.426	.435	.446	.456	.466	.477	.488	.500	.511
11.4	.413	.422	.432	.442	.452	.463	.474	.485	.496	.507	.519
11.6	.419	.429	.439	.449	.460	.470	.481	.492	.504	.515	.527
11.8	.426	.436	.446	.456	.467	.477	.489	.500	.511	.523	.535
12.0	.432	.442	.453	.463	.474	.485	.496	.508	.519	.531	.544
12.2	.439	.449	.460	.470	.481	.492	.504	.515	.527	.540	.552
12.4	.446	.456	.467	.478	.489	.500	.512	.523	.536	.548	.561
12.6	.453	.463	.474	.485	.496	.508	.520	.532	.544	.556	.569
12.8	.460	.470	.481	.492	.504	.516	.528	.540	.552	.565	.578
13.0	.467	.478	.489	.500	.512	.523	.536	.548	.561	.574	.587
13.2	.474	.485	.496	.508	.520	.532	.544	.556	.569	.583	.596
13.4	.481	.492	.504	.516	.527	.540	.552	.565	.578	.591	.605
13.6	.489	.500	.512	.523	.536	.548	.561	.574	.587	.601	.614
13.8	.496	.508	.519	.531	.544	.556	.569	.582	.596	.610	.624
14.0	.504	.515	.527	.540	.552	.565	.578	.591	.605	.619	.633

TEMP DEG C	PH 7.30	7.31	7.32	7.33	7.34	7.35	7.36	7.37	7.38	7.39	7.40
14.0	.504	.515	.527	.540	.552	.565	.578	.591	.605	.619	.633
14.2	.511	.523	.535	.548	.560	.573	.587	.600	.614	.628	.643
14.4	.519	.531	.544	.556	.569	.582	.596	.609	.624	.638	.653
14.6	.527	.539	.552	.565	.578	.591	.605	.619	.633	.648	.663
14.8	.535	.548	.560	.573	.586	.600	.614	.628	.643	.658	.673
15.0	.543	.556	.569	.582	.595	.609	.623	.638	.652	.668	.683
15.2	.551	.564	.577	.591	.604	.618	.633	.647	.662	.678	.693
15.4	.560	.573	.586	.600	.614	.628	.642	.657	.672	.688	.704
15.6	.568	.581	.595	.609	.623	.637	.652	.667	.682	.698	.714
15.8	.577	.590	.604	.618	.632	.647	.662	.677	.693	.709	.725
16.0	.586	.599	.613	.627	.642	.657	.672	.687	.703	.719	.736
16.2	.594	.608	.622	.637	.651	.666	.682	.698	.714	.730	.747
16.4	.603	.617	.632	.646	.661	.676	.692	.708	.724	.741	.758
16.6	.612	.627	.641	.656	.671	.687	.702	.719	.735	.752	.770
16.8	.622	.636	.651	.666	.681	.697	.713	.729	.746	.764	.781
17.0	.631	.645	.660	.676	.691	.707	.724	.740	.757	.775	.793
17.2	.640	.655	.670	.686	.702	.718	.734	.751	.769	.786	.805
17.4	.650	.665	.680	.696	.712	.728	.745	.763	.780	.798	.817
17.6	.659	.675	.690	.706	.723	.739	.756	.774	.792	.810	.829
17.8	.669	.685	.701	.717	.733	.750	.768	.785	.804	.822	.841
18.0	.679	.695	.711	.727	.744	.761	.779	.797	.815	.834	.854
18.2	.689	.705	.721	.738	.755	.773	.791	.809	.827	.847	.866
18.4	.699	.716	.732	.749	.766	.784	.802	.821	.840	.859	.879
18.6	.710	.726	.743	.760	.778	.796	.814	.833	.852	.872	.892
18.8	.720	.737	.754	.771	.789	.807	.826	.845	.865	.885	.905
19.0	.731	.748	.765	.783	.801	.819	.838	.858	.877	.898	.918
19.2	.742	.759	.776	.794	.813	.831	.851	.870	.890	.911	.932
19.4	.752	.770	.788	.806	.824	.844	.863	.883	.903	.924	.945
19.6	.764	.781	.799	.818	.837	.856	.876	.896	.917	.938	.959
19.8	.775	.793	.811	.830	.849	.868	.888	.909	.930	.951	.973
20.0	.786	.804	.823	.842	.861	.881	.901	.922	.944	.965	.988
20.2	.798	.816	.835	.854	.874	.894	.915	.936	.957	.979	1.002
20.4	.809	.828	.847	.867	.887	.907	.928	.949	.971	.994	1.017
20.6	.821	.840	.859	.879	.899	.920	.941	.963	.985	1.008	1.031
20.8	.833	.852	.872	.892	.912	.934	.955	.977	1.000	1.023	1.046
21.0	.845	.864	.884	.905	.926	.947	.969	.991	1.014	1.037	1.061

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.30	7.31	7.32	7.33	7.34	7.35	7.36	7.37	7.38	7.39	7.40
21.0	.845	.864	.884	.905	.926	.947	.969	.991	1.014	1.037	1.061
21.2	.857	.877	.897	.918	.939	.961	.983	1.006	1.029	1.052	1.077
21.4	.870	.890	.910	.931	.953	.975	.997	1.020	1.044	1.068	1.092
21.6	.882	.903	.923	.945	.966	.989	1.012	1.035	1.059	1.083	1.108
21.8	.895	.916	.937	.958	.980	1.003	1.026	1.050	1.074	1.099	1.124
22.0	.908	.929	.950	.972	.994	1.017	1.041	1.065	1.089	1.114	1.140
22.2	.921	.942	.964	.986	1.009	1.032	1.056	1.080	1.105	1.130	1.157
22.4	.934	.956	.978	1.000	1.023	1.047	1.071	1.096	1.121	1.147	1.173
22.6	.947	.969	.992	1.015	1.038	1.062	1.086	1.111	1.137	1.163	1.190
22.8	.961	.983	1.006	1.029	1.053	1.077	1.102	1.127	1.153	1.180	1.207
23.0	.975	.997	1.020	1.044	1.068	1.092	1.118	1.143	1.170	1.197	1.224
23.2	.989	1.011	1.035	1.059	1.083	1.108	1.134	1.160	1.186	1.214	1.242
23.4	1.00	1.03	1.05	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26
23.6	1.02	1.04	1.06	1.09	1.11	1.14	1.17	1.19	1.22	1.25	1.28
23.8	1.03	1.06	1.08	1.10	1.13	1.16	1.18	1.21	1.24	1.27	1.30
24.0	1.05	1.07	1.09	1.12	1.15	1.17	1.20	1.23	1.26	1.28	1.31
24.2	1.06	1.09	1.11	1.14	1.16	1.19	1.22	1.24	1.27	1.30	1.33
24.4	1.08	1.10	1.13	1.15	1.18	1.21	1.23	1.26	1.29	1.32	1.35
24.6	1.09	1.12	1.14	1.17	1.20	1.22	1.25	1.28	1.31	1.34	1.37
24.8	1.11	1.13	1.16	1.18	1.21	1.24	1.27	1.30	1.33	1.36	1.39
25.0	1.12	1.15	1.17	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41
25.2	1.14	1.16	1.19	1.22	1.25	1.28	1.30	1.33	1.36	1.40	1.43
25.4	1.15	1.18	1.21	1.24	1.26	1.29	1.32	1.35	1.38	1.42	1.45
25.6	1.17	1.20	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.44	1.47
25.8	1.19	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.46	1.49
26.0	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.48	1.51
26.2	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.43	1.46	1.50	1.53
26.4	1.24	1.27	1.29	1.32	1.35	1.39	1.42	1.45	1.48	1.52	1.55
26.6	1.25	1.28	1.31	1.34	1.37	1.40	1.44	1.47	1.50	1.54	1.57
26.8	1.27	1.30	1.33	1.36	1.39	1.42	1.46	1.49	1.52	1.56	1.60
27.0	1.29	1.32	1.35	1.38	1.41	1.44	1.48	1.51	1.55	1.58	1.62
27.2	1.31	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60	1.64
27.4	1.33	1.36	1.39	1.42	1.45	1.48	1.52	1.55	1.59	1.63	1.66
27.6	1.34	1.37	1.41	1.44	1.47	1.50	1.54	1.57	1.61	1.65	1.69
27.8	1.36	1.39	1.43	1.46	1.49	1.53	1.56	1.60	1.63	1.67	1.71
28.0	1.38	1.41	1.44	1.48	1.51	1.55	1.58	1.62	1.66	1.69	1.73

TEMP DEG C	PH 7.30	7.31	7.32	7.33	7.34	7.35	7.36	7.37	7.38	7.39	7.40
28.0	1.38	1.41	1.44	1.48	1.51	1.55	1.58	1.62	1.66	1.69	1.73
28.2	1.40	1.43	1.46	1.50	1.53	1.57	1.60	1.64	1.68	1.72	1.76
28.4	1.42	1.45	1.48	1.52	1.55	1.59	1.63	1.66	1.70	1.74	1.78
28.6	1.44	1.47	1.51	1.54	1.57	1.61	1.65	1.69	1.72	1.76	1.80
28.8	1.46	1.49	1.53	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83
29.0	1.48	1.51	1.55	1.58	1.62	1.66	1.69	1.73	1.77	1.81	1.85
29.2	1.50	1.53	1.57	1.60	1.64	1.68	1.72	1.76	1.80	1.84	1.88
29.4	1.52	1.55	1.59	1.63	1.66	1.70	1.74	1.78	1.82	1.86	1.90
29.6	1.54	1.57	1.61	1.65	1.69	1.72	1.76	1.80	1.84	1.89	1.93
29.8	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.96
30.0	1.58	1.62	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.94	1.98
30.2	1.60	1.64	1.68	1.72	1.75	1.79	1.84	1.88	1.92	1.96	2.01
30.4	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.95	1.99	2.04
30.6	1.65	1.68	1.72	1.76	1.80	1.84	1.89	1.93	1.97	2.02	2.06
30.8	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.95	2.00	2.04	2.09
31.0	1.69	1.73	1.77	1.81	1.85	1.89	1.94	1.98	2.03	2.07	2.12
31.2	1.71	1.75	1.79	1.83	1.88	1.92	1.96	2.01	2.05	2.10	2.15
31.4	1.74	1.78	1.82	1.86	1.90	1.94	1.99	2.03	2.08	2.13	2.18
31.6	1.76	1.80	1.84	1.88	1.93	1.97	2.02	2.06	2.11	2.16	2.21
31.8	1.78	1.82	1.87	1.91	1.95	2.00	2.04	2.09	2.14	2.18	2.23
32.0	1.81	1.85	1.89	1.93	1.98	2.02	2.07	2.12	2.16	2.21	2.26
32.2	1.83	1.87	1.92	1.96	2.00	2.05	2.10	2.14	2.19	2.24	2.29
32.4	1.86	1.90	1.94	1.99	2.03	2.08	2.12	2.17	2.22	2.27	2.32
32.6	1.88	1.92	1.97	2.01	2.06	2.10	2.15	2.20	2.25	2.30	2.36
32.8	1.91	1.95	1.99	2.04	2.09	2.13	2.18	2.23	2.28	2.33	2.39
33.0	1.93	1.97	2.02	2.07	2.11	2.16	2.21	2.26	2.31	2.36	2.42
33.2	1.96	2.00	2.05	2.09	2.14	2.19	2.24	2.29	2.34	2.40	2.45
33.4	1.98	2.03	2.07	2.12	2.17	2.22	2.27	2.32	2.37	2.43	2.48
33.6	2.01	2.05	2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.46	2.51
33.8	2.03	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55
34.0	2.06	2.11	2.16	2.21	2.26	2.31	2.36	2.41	2.47	2.52	2.58
34.2	2.09	2.14	2.18	2.23	2.28	2.34	2.39	2.44	2.50	2.56	2.61
34.4	2.12	2.16	2.21	2.26	2.31	2.37	2.42	2.48	2.53	2.59	2.65
34.6	2.14	2.19	2.24	2.29	2.34	2.40	2.45	2.51	2.57	2.62	2.68
34.8	2.17	2.22	2.27	2.32	2.38	2.43	2.48	2.54	2.60	2.66	2.72
35.0	2.20	2.25	2.30	2.35	2.41	2.46	2.52	2.57	2.63	2.69	2.75

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.30	7.31	7.32	7.33	7.34	7.35	7.36	7.37	7.38	7.39	7.40
35.0	2.20	2.25	2.30	2.35	2.41	2.46	2.52	2.57	2.63	2.69	2.75
35.2	2.23	2.28	2.33	2.38	2.44	2.49	2.55	2.61	2.67	2.73	2.79
35.4	2.26	2.31	2.36	2.41	2.47	2.53	2.58	2.64	2.70	2.76	2.82
35.6	2.29	2.34	2.39	2.45	2.50	2.56	2.62	2.68	2.74	2.80	2.86
35.8	2.32	2.37	2.42	2.48	2.53	2.59	2.65	2.71	2.77	2.83	2.90
36.0	2.35	2.40	2.45	2.51	2.57	2.62	2.68	2.74	2.81	2.87	2.94
36.2	2.38	2.43	2.49	2.54	2.60	2.66	2.72	2.78	2.84	2.91	2.97
36.4	2.41	2.46	2.52	2.57	2.63	2.69	2.75	2.82	2.88	2.94	3.01
36.6	2.44	2.49	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98	3.05
36.8	2.47	2.52	2.58	2.64	2.70	2.76	2.82	2.89	2.95	3.02	3.09
37.0	2.50	2.56	2.62	2.67	2.74	2.80	2.86	2.93	2.99	3.06	3.13
37.2	2.53	2.59	2.65	2.71	2.77	2.83	2.90	2.96	3.03	3.10	3.17
37.4	2.56	2.62	2.68	2.74	2.81	2.87	2.93	3.00	3.07	3.14	3.21
37.6	2.60	2.66	2.72	2.78	2.84	2.91	2.97	3.04	3.11	3.18	3.25
37.8	2.63	2.69	2.75	2.81	2.88	2.94	3.01	3.08	3.15	3.22	3.29
38.0	2.66	2.72	2.79	2.85	2.91	2.98	3.05	3.12	3.19	3.26	3.33
38.2	2.70	2.76	2.82	2.89	2.95	3.02	3.09	3.16	3.23	3.30	3.37
38.4	2.73	2.79	2.86	2.92	2.99	3.06	3.12	3.19	3.27	3.34	3.42
38.6	2.77	2.83	2.89	2.96	3.03	3.09	3.16	3.24	3.31	3.38	3.46
38.8	2.80	2.87	2.93	3.00	3.06	3.13	3.20	3.28	3.35	3.43	3.50
39.0	2.84	2.90	2.97	3.03	3.10	3.17	3.24	3.32	3.39	3.47	3.55
39.2	2.87	2.94	3.00	3.07	3.14	3.21	3.28	3.36	3.43	3.51	3.59
39.4	2.91	2.97	3.04	3.11	3.18	3.25	3.33	3.40	3.48	3.56	3.64
39.6	2.95	3.01	3.08	3.15	3.22	3.29	3.37	3.44	3.52	3.60	3.68
39.8	2.98	3.05	3.12	3.19	3.26	3.33	3.41	3.49	3.56	3.64	3.73
40.0	3.02	3.09	3.16	3.23	3.30	3.38	3.45	3.53	3.61	3.69	3.77

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.40	7.41	7.42	7.43	7.44	7.45	7.46	7.47	7.48	7.49	7.50
.0	.207	.212	.217	.222	.227	.232	.238	.243	.249	.255	.261
.2	.211	.216	.221	.226	.231	.236	.242	.248	.253	.259	.265
.4	.214	.219	.224	.230	.235	.240	.246	.252	.258	.264	.270
.6	.218	.223	.228	.234	.239	.244	.250	.256	.262	.268	.274
.8	.222	.227	.232	.237	.243	.249	.254	.260	.266	.273	.279
1.0	.225	.231	.236	.241	.247	.253	.259	.265	.271	.277	.284
1.2	.229	.234	.240	.245	.251	.257	.263	.269	.275	.282	.288
1.4	.233	.238	.244	.250	.255	.261	.267	.274	.280	.286	.293
1.6	.237	.242	.248	.254	.260	.266	.272	.278	.285	.291	.298
1.8	.241	.246	.252	.258	.264	.270	.276	.283	.289	.296	.303
2.0	.245	.251	.256	.262	.268	.275	.281	.288	.294	.301	.308
2.2	.249	.255	.261	.267	.273	.279	.286	.292	.299	.306	.313
2.4	.253	.259	.265	.271	.277	.284	.291	.297	.304	.311	.318
2.6	.257	.263	.269	.276	.282	.289	.295	.302	.309	.316	.324
2.8	.262	.268	.274	.280	.287	.293	.300	.307	.314	.322	.329
3.0	.266	.272	.278	.285	.292	.298	.305	.312	.320	.327	.335
3.2	.270	.277	.283	.290	.296	.303	.310	.317	.325	.332	.340
3.4	.275	.281	.288	.294	.301	.308	.315	.323	.330	.338	.346
3.6	.279	.286	.292	.299	.306	.313	.321	.328	.336	.343	.351
3.8	.284	.291	.297	.304	.311	.318	.326	.333	.341	.349	.357
4.0	.289	.295	.302	.309	.316	.324	.331	.339	.347	.355	.363
4.2	.293	.300	.307	.314	.322	.329	.337	.344	.352	.361	.369
4.4	.298	.305	.312	.319	.327	.334	.342	.350	.358	.367	.375
4.6	.303	.310	.317	.325	.332	.340	.348	.356	.364	.373	.381
4.8	.308	.315	.322	.330	.338	.345	.353	.362	.370	.379	.387
5.0	.313	.320	.328	.335	.343	.351	.359	.368	.376	.385	.394
5.2	.318	.326	.333	.341	.349	.357	.365	.374	.382	.391	.400
5.4	.323	.331	.339	.346	.354	.363	.371	.380	.388	.397	.407
5.6	.329	.336	.344	.352	.360	.369	.377	.386	.395	.404	.413
5.8	.334	.342	.350	.358	.366	.375	.383	.392	.401	.410	.420
6.0	.339	.347	.355	.364	.372	.381	.389	.398	.408	.417	.427
6.2	.345	.353	.361	.369	.378	.387	.396	.405	.414	.424	.434
6.4	.350	.359	.367	.375	.384	.393	.402	.411	.421	.431	.441
6.6	.356	.364	.373	.381	.390	.399	.409	.418	.428	.438	.448
6.8	.362	.370	.379	.388	.397	.406	.415	.425	.435	.445	.455
7.0	.368	.376	.385	.394	.403	.412	.422	.432	.442	.452	.462

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.40	7.41	7.42	7.43	7.44	7.45	7.46	7.47	7.48	7.49	7.50
7.0	.368	.376	.385	.394	.403	.412	.422	.432	.442	.452	.462
7.2	.374	.382	.391	.400	.409	.419	.429	.439	.449	.459	.470
7.4	.380	.388	.397	.407	.416	.426	.435	.446	.456	.466	.477
7.6	.386	.395	.404	.413	.423	.432	.442	.453	.463	.474	.485
7.8	.392	.401	.410	.420	.429	.439	.450	.460	.471	.482	.493
8.0	.398	.407	.417	.426	.436	.446	.457	.467	.478	.489	.501
8.2	.404	.414	.423	.433	.443	.453	.464	.475	.486	.497	.509
8.4	.411	.420	.430	.440	.450	.461	.471	.482	.493	.505	.517
8.6	.417	.427	.437	.447	.457	.468	.479	.490	.501	.513	.525
8.8	.424	.434	.444	.454	.465	.475	.486	.498	.509	.521	.533
9.0	.431	.441	.451	.461	.472	.483	.494	.506	.517	.529	.542
9.2	.437	.448	.458	.469	.479	.491	.502	.514	.526	.538	.550
9.4	.444	.455	.465	.476	.487	.498	.510	.522	.534	.546	.559
9.6	.451	.462	.473	.484	.495	.506	.518	.530	.542	.555	.568
9.8	.459	.469	.480	.491	.503	.514	.526	.538	.551	.564	.577
10.0	.466	.477	.488	.499	.510	.522	.534	.547	.559	.572	.586
10.2	.473	.484	.495	.507	.518	.530	.543	.555	.568	.581	.595
10.4	.480	.492	.503	.515	.527	.539	.551	.564	.577	.590	.604
10.6	.488	.499	.511	.523	.535	.547	.560	.573	.586	.600	.614
10.8	.496	.507	.519	.531	.543	.556	.569	.582	.595	.609	.623
11.0	.503	.515	.527	.539	.552	.564	.578	.591	.605	.619	.633
11.2	.511	.523	.535	.548	.560	.573	.587	.600	.614	.628	.643
11.4	.519	.531	.544	.556	.569	.582	.596	.609	.624	.638	.653
11.6	.527	.539	.552	.565	.578	.591	.605	.619	.633	.648	.663
11.8	.535	.548	.561	.574	.587	.600	.614	.628	.643	.658	.673
12.0	.544	.556	.569	.582	.596	.610	.624	.638	.653	.668	.684
12.2	.552	.565	.578	.591	.605	.619	.633	.648	.663	.678	.694
12.4	.561	.574	.587	.601	.614	.629	.643	.658	.673	.689	.705
12.6	.569	.583	.596	.610	.624	.638	.653	.668	.684	.700	.716
12.8	.578	.591	.605	.619	.634	.648	.663	.679	.694	.710	.727
13.0	.587	.601	.614	.629	.643	.658	.673	.689	.705	.721	.738
13.2	.596	.610	.624	.638	.653	.668	.684	.700	.716	.732	.749
13.4	.605	.619	.633	.648	.663	.678	.694	.710	.727	.743	.761
13.6	.614	.629	.643	.658	.673	.689	.705	.721	.738	.755	.772
13.8	.624	.638	.653	.668	.684	.699	.716	.732	.749	.766	.784
14.0	.633	.648	.663	.678	.694	.710	.726	.743	.760	.778	.796

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.40	7.41	7.42	7.43	7.44	7.45	7.46	7.47	7.48	7.49	7.50
14.0	.633	.648	.663	.678	.694	.710	.726	.743	.760	.778	.796
14.2	.643	.658	.673	.689	.705	.721	.738	.755	.772	.790	.808
14.4	.653	.668	.683	.699	.715	.732	.749	.766	.784	.802	.820
14.6	.663	.678	.694	.710	.726	.743	.760	.778	.796	.814	.833
14.8	.673	.688	.704	.721	.737	.754	.772	.790	.808	.826	.845
15.0	.683	.699	.715	.731	.748	.766	.783	.801	.820	.839	.858
15.2	.693	.709	.726	.743	.760	.777	.795	.814	.832	.852	.871
15.4	.704	.720	.737	.754	.771	.789	.807	.826	.845	.864	.884
15.6	.714	.731	.748	.765	.783	.801	.819	.838	.858	.877	.898
15.8	.725	.742	.759	.777	.795	.813	.832	.851	.871	.891	.911
16.0	.736	.753	.770	.788	.806	.825	.844	.864	.884	.904	.925
16.2	.747	.764	.782	.800	.819	.838	.857	.877	.897	.918	.939
16.4	.758	.776	.794	.812	.831	.850	.870	.890	.910	.931	.953
16.6	.770	.787	.806	.824	.843	.863	.883	.903	.924	.945	.967
16.8	.781	.799	.818	.837	.856	.876	.896	.917	.938	.959	.981
17.0	.793	.811	.830	.849	.869	.889	.909	.930	.952	.974	.996
17.2	.805	.823	.842	.862	.882	.902	.923	.944	.966	.988	1.011
17.4	.817	.835	.855	.875	.895	.915	.936	.958	.980	1.003	1.026
17.6	.829	.848	.867	.888	.908	.929	.950	.972	.995	1.018	1.041
17.8	.841	.860	.880	.901	.921	.943	.964	.987	1.009	1.033	1.057
18.0	.854	.873	.893	.914	.935	.957	.979	1.001	1.024	1.048	1.072
18.2	.866	.886	.907	.928	.949	.971	.993	1.016	1.040	1.063	1.088
18.4	.879	.899	.920	.941	.963	.985	1.008	1.031	1.055	1.079	1.104
18.6	.892	.912	.934	.955	.977	1.000	1.023	1.046	1.070	1.095	1.120
18.8	.905	.926	.947	.969	.991	1.014	1.038	1.062	1.086	1.111	1.137
19.0	.918	.940	.961	.983	1.006	1.029	1.053	1.077	1.102	1.127	1.153
19.2	.932	.953	.975	.998	1.021	1.044	1.068	1.093	1.118	1.144	1.170
19.4	.945	.967	.990	1.012	1.036	1.060	1.084	1.109	1.135	1.161	1.187
19.6	.959	.981	1.004	1.027	1.051	1.075	1.100	1.125	1.151	1.178	1.205
19.8	.973	.996	1.019	1.042	1.066	1.091	1.116	1.142	1.168	1.195	1.222
20.0	.988	1.010	1.034	1.057	1.082	1.107	1.132	1.158	1.185	1.212	1.240
20.2	1.00	1.03	1.05	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26
20.4	1.02	1.04	1.06	1.09	1.11	1.14	1.17	1.19	1.22	1.25	1.28
20.6	1.03	1.06	1.08	1.10	1.13	1.16	1.18	1.21	1.24	1.27	1.29
20.8	1.05	1.07	1.10	1.12	1.15	1.17	1.20	1.23	1.26	1.28	1.31
21.0	1.06	1.09	1.11	1.14	1.16	1.19	1.22	1.24	1.27	1.30	1.33

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.40	7.41	7.42	7.43	7.44	7.45	7.46	7.47	7.48	7.49	7.50
21.0	1.06	1.09	1.11	1.14	1.16	1.19	1.22	1.24	1.27	1.30	1.33
21.2	1.08	1.10	1.13	1.15	1.18	1.21	1.23	1.26	1.29	1.32	1.35
21.4	1.09	1.12	1.14	1.17	1.20	1.22	1.25	1.28	1.31	1.34	1.37
21.6	1.11	1.13	1.16	1.19	1.21	1.24	1.27	1.30	1.33	1.36	1.39
21.8	1.12	1.15	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41
22.0	1.14	1.17	1.19	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.43
22.2	1.16	1.18	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.45
22.4	1.17	1.20	1.23	1.26	1.28	1.31	1.34	1.38	1.41	1.44	1.47
22.6	1.19	1.22	1.25	1.27	1.30	1.33	1.36	1.40	1.43	1.46	1.49
22.8	1.21	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.45	1.48	1.51
23.0	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.44	1.47	1.50	1.54
23.2	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.46	1.49	1.52	1.56
23.4	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.48	1.51	1.54	1.58
23.6	1.28	1.31	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60
23.8	1.30	1.32	1.36	1.39	1.42	1.45	1.48	1.52	1.55	1.59	1.63
24.0	1.31	1.34	1.37	1.41	1.44	1.47	1.51	1.54	1.57	1.61	1.65
24.2	1.33	1.36	1.39	1.43	1.46	1.49	1.53	1.56	1.60	1.63	1.67
24.4	1.35	1.38	1.41	1.45	1.48	1.51	1.55	1.58	1.62	1.66	1.69
24.6	1.37	1.40	1.43	1.47	1.50	1.53	1.57	1.61	1.64	1.68	1.72
24.8	1.39	1.42	1.45	1.49	1.52	1.56	1.59	1.63	1.67	1.70	1.74
25.0	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65	1.69	1.73	1.77
25.2	1.43	1.46	1.49	1.53	1.56	1.60	1.64	1.67	1.71	1.75	1.79
25.4	1.45	1.48	1.52	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82
25.6	1.47	1.50	1.54	1.57	1.61	1.64	1.68	1.72	1.76	1.80	1.84
25.8	1.49	1.52	1.56	1.59	1.63	1.67	1.71	1.75	1.78	1.83	1.87
26.0	1.51	1.54	1.58	1.62	1.65	1.69	1.73	1.77	1.81	1.85	1.89
26.2	1.53	1.57	1.60	1.64	1.68	1.71	1.75	1.79	1.83	1.88	1.92
26.4	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.95
26.6	1.57	1.61	1.65	1.68	1.72	1.76	1.80	1.84	1.89	1.93	1.97
26.8	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.96	2.00
27.0	1.62	1.65	1.69	1.73	1.77	1.81	1.85	1.90	1.94	1.98	2.03
27.2	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.97	2.01	2.06
27.4	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.95	1.99	2.04	2.08
27.6	1.69	1.72	1.76	1.80	1.84	1.89	1.93	1.97	2.02	2.07	2.11
27.8	1.71	1.75	1.79	1.83	1.87	1.91	1.96	2.00	2.05	2.09	2.14
28.0	1.73	1.77	1.81	1.85	1.90	1.94	1.98	2.03	2.07	2.12	2.17

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.40	7.41	7.42	7.43	7.44	7.45	7.46	7.47	7.48	7.49	7.50
28.0	1.73	1.77	1.81	1.85	1.90	1.94	1.98	2.03	2.07	2.12	2.17
28.2	1.76	1.80	1.84	1.88	1.92	1.97	2.01	2.06	2.10	2.15	2.20
28.4	1.78	1.82	1.86	1.90	1.95	1.99	2.04	2.08	2.13	2.18	2.23
28.6	1.80	1.85	1.89	1.93	1.97	2.02	2.07	2.11	2.16	2.21	2.26
28.8	1.83	1.87	1.91	1.96	2.00	2.05	2.09	2.14	2.19	2.24	2.29
29.0	1.85	1.90	1.94	1.98	2.03	2.07	2.12	2.17	2.22	2.27	2.32
29.2	1.88	1.92	1.97	2.01	2.06	2.10	2.15	2.20	2.25	2.30	2.35
29.4	1.90	1.95	1.99	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.39
29.6	1.93	1.97	2.02	2.07	2.11	2.16	2.21	2.26	2.31	2.36	2.42
29.8	1.96	2.00	2.05	2.09	2.14	2.19	2.24	2.29	2.34	2.40	2.45
30.0	1.98	2.03	2.07	2.12	2.17	2.22	2.27	2.32	2.37	2.43	2.48
30.2	2.01	2.05	2.10	2.15	2.20	2.25	2.30	2.35	2.41	2.46	2.52
30.4	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55
30.6	2.06	2.11	2.16	2.21	2.26	2.31	2.36	2.42	2.47	2.53	2.58
30.8	2.09	2.14	2.19	2.24	2.29	2.34	2.39	2.45	2.50	2.56	2.62
31.0	2.12	2.17	2.22	2.27	2.32	2.37	2.43	2.48	2.54	2.59	2.65
31.2	2.15	2.20	2.25	2.30	2.35	2.40	2.46	2.51	2.57	2.63	2.69
31.4	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55	2.60	2.66	2.72
31.6	2.21	2.26	2.31	2.36	2.41	2.47	2.52	2.58	2.64	2.70	2.76
31.8	2.23	2.29	2.34	2.39	2.44	2.50	2.56	2.62	2.67	2.74	2.80
32.0	2.26	2.32	2.37	2.42	2.48	2.53	2.59	2.65	2.71	2.77	2.83
32.2	2.29	2.35	2.40	2.45	2.51	2.57	2.63	2.68	2.75	2.81	2.87
32.4	2.32	2.38	2.43	2.49	2.54	2.60	2.66	2.72	2.78	2.84	2.91
32.6	2.36	2.41	2.46	2.52	2.58	2.64	2.70	2.76	2.82	2.88	2.95
32.8	2.39	2.44	2.50	2.55	2.61	2.67	2.73	2.79	2.86	2.92	2.99
33.0	2.42	2.47	2.53	2.59	2.65	2.71	2.77	2.83	2.89	2.96	3.03
33.2	2.45	2.51	2.56	2.62	2.68	2.74	2.80	2.87	2.93	3.00	3.06
33.4	2.48	2.54	2.60	2.65	2.71	2.78	2.84	2.90	2.97	3.04	3.10
33.6	2.51	2.57	2.63	2.69	2.75	2.81	2.88	2.94	3.01	3.08	3.15
33.8	2.55	2.61	2.66	2.72	2.79	2.85	2.91	2.98	3.05	3.12	3.19
34.0	2.58	2.64	2.70	2.76	2.82	2.89	2.95	3.02	3.09	3.16	3.23
34.2	2.61	2.67	2.73	2.80	2.86	2.92	2.99	3.06	3.13	3.20	3.27
34.4	2.65	2.71	2.77	2.83	2.90	2.96	3.03	3.10	3.17	3.24	3.31
34.6	2.68	2.74	2.81	2.87	2.93	3.00	3.07	3.14	3.21	3.28	3.35
34.8	2.72	2.78	2.84	2.91	2.97	3.04	3.11	3.18	3.25	3.32	3.40
35.0	2.75	2.82	2.88	2.94	3.01	3.08	3.15	3.22	3.29	3.37	3.44

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.40	7.41	7.42	7.43	7.44	7.45	7.46	7.47	7.48	7.49	7.50
35.0	2.75	2.82	2.88	2.94	3.01	3.08	3.15	3.22	3.29	3.37	3.44
35.2	2.79	2.85	2.92	2.98	3.05	3.12	3.19	3.26	3.33	3.41	3.49
35.4	2.82	2.89	2.95	3.02	3.09	3.16	3.23	3.30	3.38	3.45	3.53
35.6	2.86	2.93	2.99	3.06	3.13	3.20	3.27	3.34	3.42	3.50	3.58
35.8	2.90	2.96	3.03	3.10	3.17	3.24	3.31	3.39	3.46	3.54	3.62
36.0	2.94	3.00	3.07	3.14	3.21	3.28	3.36	3.43	3.51	3.59	3.67
36.2	2.97	3.04	3.11	3.18	3.25	3.32	3.40	3.47	3.55	3.63	3.71
36.4	3.01	3.08	3.15	3.22	3.29	3.37	3.44	3.52	3.60	3.68	3.76
36.6	3.05	3.12	3.19	3.26	3.33	3.41	3.49	3.56	3.64	3.73	3.81
36.8	3.09	3.16	3.23	3.30	3.38	3.45	3.53	3.61	3.69	3.77	3.86
37.0	3.13	3.20	3.27	3.34	3.42	3.50	3.57	3.65	3.74	3.82	3.91
37.2	3.17	3.24	3.31	3.39	3.46	3.54	3.62	3.70	3.78	3.87	3.96
37.4	3.21	3.28	3.35	3.43	3.51	3.59	3.67	3.75	3.83	3.92	4.01
37.6	3.25	3.32	3.40	3.47	3.55	3.63	3.71	3.80	3.88	3.97	4.06
37.8	3.29	3.36	3.44	3.52	3.60	3.68	3.76	3.84	3.93	4.02	4.11
38.0	3.33	3.41	3.48	3.56	3.64	3.72	3.81	3.89	3.98	4.07	4.16
38.2	3.37	3.45	3.53	3.61	3.69	3.77	3.85	3.94	4.03	4.12	4.21
38.4	3.42	3.49	3.57	3.65	3.73	3.82	3.90	3.99	4.08	4.17	4.26
38.6	3.46	3.54	3.62	3.70	3.78	3.86	3.95	4.04	4.13	4.22	4.32
38.8	3.50	3.58	3.66	3.74	3.83	3.91	4.00	4.09	4.18	4.27	4.37
39.0	3.55	3.63	3.71	3.79	3.87	3.96	4.05	4.14	4.23	4.33	4.42
39.2	3.59	3.67	3.75	3.84	3.92	4.01	4.10	4.19	4.29	4.38	4.48
39.4	3.64	3.72	3.80	3.88	3.97	4.06	4.15	4.24	4.34	4.43	4.53
39.6	3.68	3.76	3.85	3.93	4.02	4.11	4.20	4.30	4.39	4.49	4.59
39.8	3.73	3.81	3.89	3.98	4.07	4.16	4.25	4.35	4.45	4.55	4.65
40.0	3.77	3.86	3.94	4.03	4.12	4.21	4.31	4.40	4.50	4.60	4.70

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.50	7.51	7.52	7.53	7.54	7.55	7.56	7.57	7.58	7.59	7.60
.0	.261	.267	.273	.279	.286	.293	.299	.306	.313	.321	.328
.2	.265	.271	.278	.284	.291	.297	.304	.311	.319	.326	.334
.4	.270	.276	.282	.289	.296	.302	.310	.317	.324	.332	.339
.6	.274	.281	.287	.294	.301	.308	.315	.322	.330	.337	.345
.8	.279	.285	.292	.299	.306	.313	.320	.327	.335	.343	.351
1.0	.284	.290	.297	.304	.311	.318	.325	.333	.341	.349	.357
1.2	.288	.295	.302	.309	.316	.323	.331	.339	.346	.354	.363
1.4	.293	.300	.307	.314	.321	.329	.336	.344	.352	.360	.369
1.6	.298	.305	.312	.319	.327	.334	.342	.350	.358	.366	.375
1.8	.303	.310	.317	.325	.332	.340	.348	.356	.364	.373	.381
2.0	.308	.315	.323	.330	.338	.346	.354	.362	.370	.379	.388
2.2	.313	.320	.328	.336	.343	.351	.359	.368	.376	.385	.394
2.4	.318	.326	.333	.341	.349	.357	.365	.374	.383	.391	.401
2.6	.324	.331	.339	.347	.355	.363	.372	.380	.389	.398	.407
2.8	.329	.337	.345	.353	.361	.369	.378	.386	.395	.405	.414
3.0	.335	.342	.350	.358	.367	.375	.384	.393	.402	.411	.421
3.2	.340	.348	.356	.364	.373	.381	.390	.399	.409	.418	.428
3.4	.346	.354	.362	.370	.379	.388	.397	.406	.415	.425	.435
3.6	.351	.360	.368	.376	.385	.394	.403	.413	.422	.432	.442
3.8	.357	.365	.374	.383	.392	.401	.410	.419	.429	.439	.449
4.0	.363	.371	.380	.389	.398	.407	.417	.426	.436	.446	.457
4.2	.369	.378	.386	.395	.404	.414	.423	.433	.443	.454	.464
4.4	.375	.384	.393	.402	.411	.421	.430	.440	.451	.461	.472
4.6	.381	.390	.399	.408	.418	.428	.437	.448	.458	.469	.479
4.8	.387	.396	.406	.415	.425	.435	.445	.455	.465	.476	.487
5.0	.394	.403	.412	.422	.432	.442	.452	.462	.473	.484	.495
5.2	.400	.409	.419	.429	.439	.449	.459	.470	.481	.492	.503
5.4	.407	.416	.426	.436	.446	.456	.467	.477	.489	.500	.511
5.6	.413	.423	.433	.443	.453	.464	.474	.485	.496	.508	.520
5.8	.420	.430	.440	.450	.460	.471	.482	.493	.505	.516	.528
6.0	.427	.437	.447	.457	.468	.479	.490	.501	.513	.525	.537
6.2	.434	.444	.454	.465	.475	.486	.498	.509	.521	.533	.545
6.4	.441	.451	.461	.472	.483	.494	.506	.517	.529	.542	.554
6.6	.448	.458	.469	.480	.491	.502	.514	.526	.538	.550	.563
6.8	.455	.466	.476	.487	.499	.510	.522	.534	.547	.559	.572
7.0	.462	.473	.484	.495	.507	.518	.530	.543	.555	.568	.581

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.50	7.51	7.52	7.53	7.54	7.55	7.56	7.57	7.58	7.59	7.60
7.0	.462	.473	.484	.495	.507	.518	.530	.543	.555	.568	.581
7.2	.470	.481	.492	.503	.515	.527	.539	.551	.564	.577	.591
7.4	.477	.488	.500	.511	.523	.535	.548	.560	.573	.587	.600
7.6	.485	.496	.508	.519	.531	.544	.556	.569	.582	.596	.610
7.8	.493	.504	.516	.528	.540	.552	.565	.578	.592	.605	.619
8.0	.501	.512	.524	.536	.549	.561	.574	.588	.601	.615	.629
8.2	.509	.520	.532	.545	.557	.570	.583	.597	.611	.625	.639
8.4	.517	.529	.541	.553	.566	.579	.593	.606	.620	.635	.650
8.6	.525	.537	.549	.562	.575	.588	.602	.616	.630	.645	.660
8.8	.533	.545	.558	.571	.584	.598	.612	.626	.640	.655	.670
9.0	.542	.554	.567	.580	.594	.607	.621	.636	.650	.665	.681
9.2	.550	.563	.576	.589	.603	.617	.631	.646	.661	.676	.692
9.4	.559	.572	.585	.599	.612	.627	.641	.656	.671	.687	.703
9.6	.568	.581	.594	.608	.622	.636	.651	.666	.682	.697	.714
9.8	.577	.590	.604	.618	.632	.646	.661	.677	.692	.708	.725
10.0	.586	.599	.613	.627	.642	.657	.672	.687	.703	.720	.736
10.2	.595	.609	.623	.637	.652	.667	.682	.698	.714	.731	.748
10.4	.604	.618	.632	.647	.662	.677	.693	.709	.725	.742	.759
10.6	.614	.628	.642	.657	.672	.688	.704	.720	.737	.754	.771
10.8	.623	.638	.652	.667	.683	.699	.715	.731	.748	.766	.783
11.0	.633	.648	.663	.678	.694	.710	.726	.743	.760	.777	.795
11.2	.643	.658	.673	.688	.704	.721	.737	.754	.772	.790	.808
11.4	.653	.668	.683	.699	.715	.732	.749	.766	.784	.802	.820
11.6	.663	.678	.694	.710	.726	.743	.760	.778	.796	.814	.833
11.8	.673	.689	.705	.721	.738	.755	.772	.790	.808	.827	.846
12.0	.684	.699	.716	.732	.749	.766	.784	.802	.821	.840	.859
12.2	.694	.710	.727	.743	.761	.778	.796	.815	.833	.853	.872
12.4	.705	.721	.738	.755	.772	.790	.808	.827	.846	.866	.886
12.6	.716	.732	.749	.766	.784	.802	.821	.840	.859	.879	.899
12.8	.727	.744	.761	.778	.796	.815	.833	.853	.872	.893	.913
13.0	.738	.755	.772	.790	.808	.827	.846	.866	.886	.906	.927
13.2	.749	.767	.784	.802	.821	.840	.859	.879	.899	.920	.941
13.4	.761	.778	.796	.815	.833	.853	.872	.893	.913	.934	.956
13.6	.772	.790	.808	.827	.846	.866	.886	.906	.927	.948	.970
13.8	.784	.802	.821	.840	.859	.879	.899	.920	.941	.963	.985
14.0	.796	.814	.833	.852	.872	.892	.913	.934	.955	.978	1.000

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.50	7.51	7.52	7.53	7.54	7.55	7.56	7.57	7.58	7.59	7.60
14.0	.796	.814	.833	.852	.872	.892	.913	.934	.955	.978	1.000
14.2	.808	.827	.846	.865	.885	.906	.927	.948	.970	.992	1.015
14.4	.820	.839	.859	.879	.899	.920	.941	.963	.985	1.007	1.031
14.6	.833	.852	.872	.892	.912	.934	.955	.977	1.000	1.023	1.046
14.8	.845	.865	.885	.905	.926	.948	.970	.992	1.015	1.038	1.062
15.0	.858	.878	.898	.919	.940	.962	.984	1.007	1.030	1.054	1.078
15.2	.871	.891	.912	.933	.955	.977	.999	1.022	1.046	1.070	1.094
15.4	.884	.905	.926	.947	.969	.991	1.014	1.037	1.061	1.086	1.111
15.6	.898	.918	.940	.961	.983	1.006	1.029	1.053	1.077	1.102	1.128
15.8	.911	.932	.954	.976	.998	1.021	1.045	1.069	1.093	1.119	1.144
16.0	.925	.946	.968	.990	1.013	1.037	1.060	1.085	1.110	1.135	1.162
16.2	.939	.960	.983	1.005	1.028	1.052	1.076	1.101	1.126	1.152	1.179
16.4	.953	.975	.997	1.020	1.044	1.068	1.092	1.118	1.143	1.170	1.197
16.6	.967	.989	1.012	1.035	1.059	1.084	1.109	1.134	1.160	1.187	1.214
16.8	.981	1.004	1.027	1.051	1.075	1.100	1.125	1.151	1.178	1.205	1.232
17.0	.996	1.019	1.043	1.067	1.091	1.116	1.142	1.168	1.195	1.223	1.251
17.2	1.01	1.03	1.06	1.08	1.11	1.13	1.16	1.19	1.21	1.24	1.27
17.4	1.03	1.05	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26	1.29
17.6	1.04	1.07	1.09	1.11	1.14	1.17	1.19	1.22	1.25	1.28	1.31
17.8	1.06	1.08	1.11	1.13	1.16	1.18	1.21	1.24	1.27	1.30	1.33
18.0	1.07	1.10	1.12	1.15	1.17	1.20	1.23	1.26	1.29	1.32	1.35
18.2	1.09	1.11	1.14	1.16	1.19	1.22	1.25	1.28	1.31	1.34	1.37
18.4	1.10	1.13	1.16	1.18	1.21	1.24	1.27	1.29	1.32	1.35	1.39
18.6	1.12	1.15	1.17	1.20	1.23	1.26	1.28	1.31	1.34	1.37	1.41
18.8	1.14	1.16	1.19	1.22	1.25	1.27	1.30	1.33	1.36	1.39	1.43
19.0	1.15	1.18	1.21	1.23	1.26	1.29	1.32	1.35	1.38	1.42	1.45
19.2	1.17	1.20	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.44	1.47
19.4	1.19	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.46	1.49
19.6	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.48	1.51
19.8	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.43	1.47	1.50	1.53
20.0	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.45	1.49	1.52	1.56
20.2	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.47	1.51	1.54	1.58
20.4	1.28	1.31	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60
20.6	1.29	1.32	1.36	1.39	1.42	1.45	1.48	1.52	1.55	1.59	1.62
20.8	1.31	1.34	1.37	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65
21.0	1.33	1.36	1.39	1.43	1.46	1.49	1.53	1.56	1.60	1.63	1.67

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.50	7.51	7.52	7.53	7.54	7.55	7.56	7.57	7.58	7.59	7.60
21.0	1.33	1.36	1.39	1.43	1.46	1.49	1.53	1.56	1.60	1.63	1.67
21.2	1.35	1.38	1.41	1.45	1.48	1.51	1.55	1.58	1.62	1.66	1.70
21.4	1.37	1.40	1.43	1.47	1.50	1.54	1.57	1.61	1.64	1.68	1.72
21.6	1.39	1.42	1.46	1.49	1.52	1.56	1.59	1.63	1.67	1.71	1.74
21.8	1.41	1.44	1.48	1.51	1.54	1.58	1.62	1.65	1.69	1.73	1.77
22.0	1.43	1.46	1.50	1.53	1.57	1.60	1.64	1.68	1.72	1.75	1.80
22.2	1.45	1.48	1.52	1.55	1.59	1.63	1.66	1.70	1.74	1.78	1.82
22.4	1.47	1.51	1.54	1.58	1.61	1.65	1.69	1.73	1.76	1.81	1.85
22.6	1.49	1.53	1.56	1.60	1.64	1.67	1.71	1.75	1.79	1.83	1.87
22.8	1.51	1.55	1.58	1.62	1.66	1.70	1.74	1.77	1.82	1.86	1.90
23.0	1.54	1.57	1.61	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.93
23.2	1.56	1.59	1.63	1.67	1.71	1.74	1.78	1.83	1.87	1.91	1.95
23.4	1.58	1.62	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.94	1.98
23.6	1.60	1.64	1.68	1.72	1.75	1.79	1.84	1.88	1.92	1.96	2.01
23.8	1.63	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.95	1.99	2.04
24.0	1.65	1.69	1.72	1.76	1.80	1.85	1.89	1.93	1.97	2.02	2.07
24.2	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.96	2.00	2.05	2.09
24.4	1.69	1.73	1.77	1.81	1.86	1.90	1.94	1.99	2.03	2.08	2.12
24.6	1.72	1.76	1.80	1.84	1.88	1.92	1.97	2.01	2.06	2.11	2.15
24.8	1.74	1.78	1.82	1.86	1.91	1.95	2.00	2.04	2.09	2.14	2.18
25.0	1.77	1.81	1.85	1.89	1.93	1.98	2.02	2.07	2.12	2.16	2.21
25.2	1.79	1.83	1.87	1.92	1.96	2.01	2.05	2.10	2.15	2.20	2.25
25.4	1.82	1.86	1.90	1.94	1.99	2.03	2.08	2.13	2.18	2.23	2.28
25.6	1.84	1.88	1.93	1.97	2.02	2.06	2.11	2.16	2.21	2.26	2.31
25.8	1.87	1.91	1.95	2.00	2.04	2.09	2.14	2.19	2.24	2.29	2.34
26.0	1.89	1.94	1.98	2.03	2.07	2.12	2.17	2.22	2.27	2.32	2.37
26.2	1.92	1.96	2.01	2.05	2.10	2.15	2.20	2.25	2.30	2.35	2.40
26.4	1.95	1.99	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.44
26.6	1.97	2.02	2.06	2.11	2.16	2.21	2.26	2.31	2.36	2.42	2.47
26.8	2.00	2.05	2.09	2.14	2.19	2.24	2.29	2.34	2.40	2.45	2.51
27.0	2.03	2.07	2.12	2.17	2.22	2.27	2.32	2.37	2.43	2.48	2.54
27.2	2.06	2.10	2.15	2.20	2.25	2.30	2.35	2.41	2.46	2.52	2.57
27.4	2.08	2.13	2.18	2.23	2.28	2.33	2.39	2.44	2.49	2.55	2.61
27.6	2.11	2.16	2.21	2.26	2.31	2.36	2.42	2.47	2.53	2.59	2.65
27.8	2.14	2.19	2.24	2.29	2.34	2.40	2.45	2.51	2.56	2.62	2.68
28.0	2.17	2.22	2.27	2.32	2.38	2.43	2.48	2.54	2.60	2.66	2.72

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.50	7.51	7.52	7.53	7.54	7.55	7.56	7.57	7.58	7.59	7.60
28.0	2.17	2.22	2.27	2.32	2.38	2.43	2.48	2.54	2.60	2.66	2.72
28.2	2.20	2.25	2.30	2.35	2.41	2.46	2.52	2.58	2.63	2.69	2.75
28.4	2.23	2.28	2.33	2.39	2.44	2.50	2.55	2.61	2.67	2.73	2.79
28.6	2.26	2.31	2.36	2.42	2.47	2.53	2.59	2.65	2.71	2.77	2.83
28.8	2.29	2.34	2.40	2.45	2.51	2.56	2.62	2.68	2.74	2.80	2.87
29.0	2.32	2.38	2.43	2.48	2.54	2.60	2.66	2.72	2.78	2.84	2.91
29.2	2.35	2.41	2.46	2.52	2.57	2.63	2.69	2.75	2.82	2.88	2.95
29.4	2.39	2.44	2.50	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98
29.6	2.42	2.47	2.53	2.59	2.64	2.70	2.77	2.83	2.89	2.96	3.02
29.8	2.45	2.51	2.56	2.62	2.68	2.74	2.80	2.87	2.93	3.00	3.07
30.0	2.48	2.54	2.60	2.66	2.72	2.78	2.84	2.90	2.97	3.04	3.11
30.2	2.52	2.57	2.63	2.69	2.75	2.81	2.88	2.94	3.01	3.08	3.15
30.4	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98	3.05	3.12	3.19
30.6	2.58	2.64	2.70	2.76	2.83	2.89	2.96	3.02	3.09	3.16	3.23
30.8	2.62	2.68	2.74	2.80	2.86	2.93	2.99	3.06	3.13	3.20	3.27
31.0	2.65	2.71	2.78	2.84	2.90	2.97	3.03	3.10	3.17	3.24	3.32
31.2	2.69	2.75	2.81	2.88	2.94	3.01	3.07	3.14	3.22	3.29	3.36
31.4	2.72	2.79	2.85	2.91	2.98	3.05	3.12	3.19	3.26	3.33	3.41
31.6	2.76	2.82	2.89	2.95	3.02	3.09	3.16	3.23	3.30	3.37	3.45
31.8	2.80	2.86	2.93	2.99	3.06	3.13	3.20	3.27	3.34	3.42	3.50
32.0	2.83	2.90	2.96	3.03	3.10	3.17	3.24	3.31	3.39	3.46	3.54
32.2	2.87	2.94	3.00	3.07	3.14	3.21	3.28	3.36	3.43	3.51	3.59
32.4	2.91	2.97	3.04	3.11	3.18	3.25	3.33	3.40	3.48	3.56	3.64
32.6	2.95	3.01	3.08	3.15	3.22	3.30	3.37	3.45	3.52	3.60	3.68
32.8	2.99	3.05	3.12	3.19	3.26	3.34	3.41	3.49	3.57	3.65	3.73
33.0	3.03	3.09	3.16	3.23	3.31	3.38	3.46	3.54	3.61	3.70	3.78
33.2	3.06	3.13	3.20	3.28	3.35	3.43	3.50	3.58	3.66	3.74	3.83
33.4	3.10	3.17	3.25	3.32	3.39	3.47	3.55	3.63	3.71	3.79	3.88
33.6	3.15	3.22	3.29	3.36	3.44	3.52	3.59	3.68	3.76	3.84	3.93
33.8	3.19	3.26	3.33	3.41	3.48	3.56	3.64	3.72	3.81	3.89	3.98
34.0	3.23	3.30	3.37	3.45	3.53	3.61	3.69	3.77	3.86	3.94	4.03
34.2	3.27	3.34	3.42	3.49	3.57	3.65	3.74	3.82	3.90	3.99	4.08
34.4	3.31	3.39	3.46	3.54	3.62	3.70	3.78	3.87	3.95	4.04	4.13
34.6	3.35	3.43	3.51	3.59	3.67	3.75	3.83	3.92	4.01	4.10	4.19
34.8	3.40	3.47	3.55	3.63	3.71	3.80	3.88	3.97	4.06	4.15	4.24
35.0	3.44	3.52	3.60	3.68	3.76	3.85	3.93	4.02	4.11	4.20	4.29

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.50	7.51	7.52	7.53	7.54	7.55	7.56	7.57	7.58	7.59	7.60
35.0	3.44	3.52	3.60	3.68	3.76	3.85	3.93	4.02	4.11	4.20	4.29
35.2	3.49	3.56	3.64	3.73	3.81	3.89	3.98	4.07	4.16	4.25	4.35
35.4	3.53	3.61	3.69	3.77	3.86	3.94	4.03	4.12	4.21	4.31	4.40
35.6	3.58	3.66	3.74	3.82	3.91	3.99	4.08	4.17	4.27	4.36	4.46
35.8	3.62	3.70	3.79	3.87	3.96	4.05	4.14	4.23	4.32	4.42	4.52
36.0	3.67	3.75	3.83	3.92	4.01	4.10	4.19	4.28	4.38	4.47	4.57
36.2	3.71	3.80	3.88	3.97	4.06	4.15	4.24	4.34	4.43	4.53	4.63
36.4	3.76	3.85	3.93	4.02	4.11	4.20	4.29	4.39	4.49	4.59	4.69
36.6	3.81	3.89	3.98	4.07	4.16	4.25	4.35	4.45	4.54	4.65	4.75
36.8	3.86	3.94	4.03	4.12	4.21	4.31	4.40	4.50	4.60	4.70	4.81
37.0	3.91	3.99	4.08	4.17	4.27	4.36	4.46	4.56	4.66	4.76	4.87
37.2	3.96	4.04	4.13	4.23	4.32	4.42	4.51	4.62	4.72	4.82	4.93
37.4	4.01	4.09	4.19	4.28	4.37	4.47	4.57	4.67	4.78	4.88	4.99
37.6	4.06	4.15	4.24	4.33	4.43	4.53	4.63	4.73	4.84	4.94	5.05
37.8	4.11	4.20	4.29	4.39	4.48	4.58	4.69	4.79	4.90	5.00	5.12
38.0	4.16	4.25	4.35	4.44	4.54	4.64	4.74	4.85	4.96	5.07	5.18
38.2	4.21	4.30	4.40	4.50	4.60	4.70	4.80	4.91	5.02	5.13	5.24
38.4	4.26	4.36	4.45	4.55	4.65	4.76	4.86	4.97	5.08	5.19	5.31
38.6	4.32	4.41	4.51	4.61	4.71	4.82	4.92	5.03	5.14	5.26	5.37
38.8	4.37	4.47	4.57	4.67	4.77	4.88	4.98	5.09	5.21	5.32	5.44
39.0	4.42	4.52	4.62	4.72	4.83	4.94	5.05	5.16	5.27	5.39	5.51
39.2	4.48	4.58	4.68	4.78	4.89	5.00	5.11	5.22	5.34	5.45	5.57
39.4	4.53	4.63	4.74	4.84	4.95	5.06	5.17	5.28	5.40	5.52	5.64
39.6	4.59	4.69	4.80	4.90	5.01	5.12	5.23	5.35	5.47	5.59	5.71
39.8	4.65	4.75	4.85	4.96	5.07	5.18	5.30	5.41	5.53	5.66	5.78
40.0	4.70	4.81	4.91	5.02	5.13	5.25	5.36	5.48	5.60	5.72	5.85

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.60	7.61	7.62	7.63	7.64	7.65	7.66	7.67	7.68	7.69	7.70
.0	.328	.336	.343	.351	.360	.368	.377	.385	.394	.403	.413
.2	.334	.341	.349	.357	.366	.374	.383	.392	.401	.410	.420
.4	.339	.347	.355	.363	.372	.381	.389	.398	.408	.417	.427
.6	.345	.353	.361	.370	.378	.387	.396	.405	.414	.424	.434
.8	.351	.359	.367	.376	.385	.393	.403	.412	.421	.431	.441
1.0	.357	.365	.373	.382	.391	.400	.409	.419	.429	.438	.449
1.2	.363	.371	.380	.389	.398	.407	.416	.426	.436	.446	.456
1.4	.369	.377	.386	.395	.404	.414	.423	.433	.443	.453	.464
1.6	.375	.384	.393	.402	.411	.420	.430	.440	.450	.461	.472
1.8	.381	.390	.399	.408	.418	.428	.437	.448	.458	.469	.479
2.0	.388	.397	.406	.415	.425	.435	.445	.455	.466	.476	.487
2.2	.394	.403	.413	.422	.432	.442	.452	.463	.473	.484	.496
2.4	.401	.410	.419	.429	.439	.449	.460	.470	.481	.492	.504
2.6	.407	.417	.426	.436	.446	.457	.467	.478	.489	.501	.512
2.8	.414	.424	.433	.443	.454	.464	.475	.486	.497	.509	.521
3.0	.421	.431	.441	.451	.461	.472	.483	.494	.506	.517	.529
3.2	.428	.438	.448	.458	.469	.480	.491	.502	.514	.526	.538
3.4	.435	.445	.455	.466	.477	.488	.499	.510	.522	.534	.547
3.6	.442	.452	.463	.473	.484	.496	.507	.519	.531	.543	.556
3.8	.449	.460	.470	.481	.492	.504	.515	.527	.540	.552	.565
4.0	.457	.467	.478	.489	.500	.512	.524	.536	.549	.561	.574
4.2	.464	.475	.486	.497	.509	.520	.533	.545	.557	.570	.584
4.4	.472	.483	.494	.505	.517	.529	.541	.554	.567	.580	.593
4.6	.479	.491	.502	.514	.525	.538	.550	.563	.576	.589	.603
4.8	.487	.499	.510	.522	.534	.546	.559	.572	.585	.599	.613
5.0	.495	.507	.518	.530	.543	.555	.568	.581	.595	.609	.623
5.2	.503	.515	.527	.539	.552	.564	.577	.591	.604	.618	.633
5.4	.511	.523	.535	.548	.561	.574	.587	.600	.614	.629	.643
5.6	.520	.532	.544	.557	.570	.583	.596	.610	.624	.639	.653
5.8	.528	.540	.553	.566	.579	.592	.606	.620	.634	.649	.664
6.0	.537	.549	.562	.575	.588	.602	.616	.630	.645	.660	.675
6.2	.545	.558	.571	.584	.598	.612	.626	.640	.655	.670	.686
6.4	.554	.567	.580	.594	.607	.621	.636	.651	.666	.681	.697
6.6	.563	.576	.590	.603	.617	.631	.646	.661	.676	.692	.708
6.8	.572	.585	.599	.613	.627	.642	.656	.672	.687	.703	.719
7.0	.581	.595	.609	.623	.637	.652	.667	.682	.698	.714	.731

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.60	7.61	7.62	7.63	7.64	7.65	7.66	7.67	7.68	7.69	7.70
7.0	.581	.595	.609	.623	.637	.652	.667	.682	.698	.714	.731
7.2	.591	.604	.618	.633	.647	.662	.678	.693	.709	.726	.743
7.4	.600	.614	.628	.643	.658	.673	.688	.704	.721	.737	.754
7.6	.610	.624	.638	.653	.668	.684	.699	.716	.732	.749	.766
7.8	.619	.634	.648	.663	.679	.695	.711	.727	.744	.761	.779
8.0	.629	.644	.659	.674	.690	.706	.722	.739	.756	.773	.791
8.2	.639	.654	.669	.685	.701	.717	.733	.750	.768	.785	.804
8.4	.650	.665	.680	.696	.712	.728	.745	.762	.780	.798	.816
8.6	.660	.675	.691	.707	.723	.740	.757	.774	.792	.811	.829
8.8	.670	.686	.702	.718	.734	.751	.769	.787	.805	.823	.842
9.0	.681	.697	.713	.729	.746	.763	.781	.799	.817	.836	.856
9.2	.692	.708	.724	.741	.758	.775	.793	.812	.830	.850	.869
9.4	.703	.719	.735	.752	.770	.788	.806	.824	.843	.863	.883
9.6	.714	.730	.747	.764	.782	.800	.818	.837	.857	.876	.897
9.8	.725	.742	.759	.776	.794	.812	.831	.850	.870	.890	.911
10.0	.736	.753	.771	.788	.807	.825	.844	.864	.884	.904	.925
10.2	.748	.765	.783	.801	.819	.838	.858	.877	.898	.918	.939
10.4	.759	.777	.795	.813	.832	.851	.871	.891	.912	.933	.954
10.6	.771	.789	.807	.826	.845	.865	.884	.905	.926	.947	.969
10.8	.783	.801	.820	.839	.858	.878	.898	.919	.940	.962	.984
11.0	.795	.814	.833	.852	.872	.892	.912	.933	.955	.977	.999
11.2	.808	.826	.846	.865	.885	.905	.926	.948	.970	.992	1.015
11.4	.820	.839	.859	.879	.899	.920	.941	.962	.985	1.007	1.031
11.6	.833	.852	.872	.892	.913	.934	.955	.977	1.000	1.023	1.047
11.8	.846	.865	.885	.906	.927	.948	.970	.992	1.015	1.039	1.063
12.0	.859	.879	.899	.920	.941	.963	.985	1.008	1.031	1.055	1.079
12.2	.872	.892	.913	.934	.956	.978	1.000	1.023	1.047	1.071	1.096
12.4	.886	.906	.927	.948	.970	.993	1.016	1.039	1.063	1.087	1.113
12.6	.899	.920	.941	.963	.985	1.008	1.031	1.055	1.079	1.104	1.130
12.8	.913	.934	.956	.978	1.000	1.023	1.047	1.071	1.096	1.121	1.147
13.0	.927	.949	.970	.993	1.016	1.039	1.063	1.088	1.113	1.138	1.164
13.2	.941	.963	.985	1.008	1.031	1.055	1.079	1.104	1.130	1.156	1.182
13.4	.956	.978	1.000	1.023	1.047	1.071	1.096	1.121	1.147	1.173	1.200
13.6	.970	.993	1.016	1.039	1.063	1.087	1.112	1.138	1.164	1.191	1.218
13.8	.985	1.008	1.031	1.055	1.079	1.104	1.129	1.155	1.182	1.209	1.237
14.0	1.00	1.02	1.05	1.07	1.10	1.12	1.15	1.17	1.20	1.23	1.26

TEMP DEG C	PH 7.60	7.61	7.62	7.63	7.64	7.65	7.66	7.67	7.68	7.69	7.70
14.0	1.00	1.02	1.05	1.07	1.10	1.12	1.15	1.17	1.20	1.23	1.26
14.2	1.02	1.04	1.06	1.09	1.11	1.14	1.16	1.19	1.22	1.25	1.27
14.4	1.03	1.05	1.08	1.10	1.13	1.15	1.18	1.21	1.24	1.26	1.29
14.6	1.05	1.07	1.10	1.12	1.15	1.17	1.20	1.23	1.26	1.28	1.31
14.8	1.06	1.09	1.11	1.14	1.16	1.19	1.22	1.25	1.27	1.30	1.33
15.0	1.08	1.10	1.13	1.15	1.18	1.21	1.24	1.26	1.29	1.32	1.35
15.2	1.09	1.12	1.15	1.17	1.20	1.23	1.25	1.28	1.31	1.34	1.37
15.4	1.11	1.14	1.16	1.19	1.22	1.24	1.27	1.30	1.33	1.36	1.39
15.6	1.13	1.15	1.18	1.21	1.23	1.26	1.29	1.32	1.35	1.38	1.42
15.8	1.14	1.17	1.20	1.23	1.25	1.28	1.31	1.34	1.37	1.40	1.44
16.0	1.16	1.19	1.22	1.24	1.27	1.30	1.33	1.36	1.39	1.43	1.46
16.2	1.18	1.21	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.45	1.48
16.4	1.20	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.44	1.47	1.50
16.6	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.46	1.49	1.52
16.8	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.48	1.51	1.55
17.0	1.25	1.28	1.31	1.34	1.37	1.40	1.43	1.47	1.50	1.53	1.57
17.2	1.27	1.30	1.33	1.36	1.39	1.42	1.45	1.49	1.52	1.56	1.59
17.4	1.29	1.32	1.35	1.38	1.41	1.44	1.48	1.51	1.54	1.58	1.62
17.6	1.31	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60	1.64
17.8	1.33	1.36	1.39	1.42	1.45	1.49	1.52	1.55	1.59	1.63	1.66
18.0	1.35	1.38	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65	1.69
18.2	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60	1.64	1.68	1.71
18.4	1.39	1.42	1.45	1.48	1.52	1.55	1.59	1.62	1.66	1.70	1.74
18.6	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65	1.69	1.72	1.76
18.8	1.43	1.46	1.49	1.53	1.56	1.60	1.63	1.67	1.71	1.75	1.79
19.0	1.45	1.48	1.51	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82
19.2	1.47	1.50	1.54	1.57	1.61	1.65	1.68	1.72	1.76	1.80	1.84
19.4	1.49	1.52	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87
19.6	1.51	1.55	1.58	1.62	1.66	1.69	1.73	1.77	1.81	1.85	1.90
19.8	1.53	1.57	1.61	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.92
20.0	1.56	1.59	1.63	1.67	1.70	1.74	1.78	1.82	1.87	1.91	1.95
20.2	1.58	1.61	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.94	1.98
20.4	1.60	1.64	1.68	1.71	1.75	1.79	1.83	1.88	1.92	1.96	2.01
20.6	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.95	1.99	2.04
20.8	1.65	1.69	1.72	1.76	1.80	1.85	1.89	1.93	1.97	2.02	2.07
21.0	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.96	2.00	2.05	2.10

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.60	7.61	7.62	7.63	7.64	7.65	7.66	7.67	7.68	7.69	7.70
21.0	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.96	2.00	2.05	2.10
21.2	1.70	1.73	1.77	1.81	1.86	1.90	1.94	1.99	2.03	2.08	2.13
21.4	1.72	1.76	1.80	1.84	1.88	1.93	1.97	2.01	2.06	2.11	2.16
21.6	1.74	1.78	1.83	1.87	1.91	1.95	2.00	2.04	2.09	2.14	2.19
21.8	1.77	1.81	1.85	1.89	1.94	1.98	2.03	2.07	2.12	2.17	2.22
22.0	1.80	1.84	1.88	1.92	1.96	2.01	2.06	2.10	2.15	2.20	2.25
22.2	1.82	1.86	1.90	1.95	1.99	2.04	2.08	2.13	2.18	2.23	2.28
22.4	1.85	1.89	1.93	1.98	2.02	2.07	2.11	2.16	2.21	2.26	2.31
22.6	1.87	1.92	1.96	2.00	2.05	2.10	2.14	2.19	2.24	2.29	2.35
22.8	1.90	1.94	1.99	2.03	2.08	2.13	2.17	2.22	2.27	2.33	2.38
23.0	1.93	1.97	2.02	2.06	2.11	2.16	2.21	2.26	2.31	2.36	2.41
23.2	1.95	2.00	2.04	2.09	2.14	2.19	2.24	2.29	2.34	2.39	2.45
23.4	1.98	2.03	2.07	2.12	2.17	2.22	2.27	2.32	2.37	2.43	2.48
23.6	2.01	2.05	2.10	2.15	2.20	2.25	2.30	2.35	2.41	2.46	2.52
23.8	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.39	2.44	2.49	2.55
24.0	2.07	2.11	2.16	2.21	2.26	2.31	2.36	2.42	2.47	2.53	2.59
24.2	2.09	2.14	2.19	2.24	2.29	2.34	2.40	2.45	2.51	2.56	2.62
24.4	2.12	2.17	2.22	2.27	2.32	2.38	2.43	2.49	2.54	2.60	2.66
24.6	2.15	2.20	2.25	2.30	2.36	2.41	2.47	2.52	2.58	2.64	2.70
24.8	2.18	2.23	2.28	2.34	2.39	2.44	2.50	2.56	2.61	2.67	2.73
25.0	2.21	2.26	2.32	2.37	2.42	2.48	2.53	2.59	2.65	2.71	2.77
25.2	2.25	2.30	2.35	2.40	2.46	2.51	2.57	2.63	2.69	2.75	2.81
25.4	2.28	2.33	2.38	2.44	2.49	2.55	2.60	2.66	2.72	2.79	2.85
25.6	2.31	2.36	2.41	2.47	2.52	2.58	2.64	2.70	2.76	2.82	2.89
25.8	2.34	2.39	2.45	2.50	2.56	2.62	2.68	2.74	2.80	2.86	2.93
26.0	2.37	2.43	2.48	2.54	2.59	2.65	2.71	2.78	2.84	2.90	2.97
26.2	2.40	2.46	2.52	2.57	2.63	2.69	2.75	2.81	2.88	2.94	3.01
26.4	2.44	2.49	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98	3.05
26.6	2.47	2.53	2.58	2.64	2.70	2.76	2.83	2.89	2.96	3.02	3.09
26.8	2.51	2.56	2.62	2.68	2.74	2.80	2.87	2.93	3.00	3.06	3.13
27.0	2.54	2.60	2.66	2.72	2.78	2.84	2.90	2.97	3.04	3.11	3.18
27.2	2.57	2.63	2.69	2.75	2.82	2.88	2.94	3.01	3.08	3.15	3.22
27.4	2.61	2.67	2.73	2.79	2.85	2.92	2.98	3.05	3.12	3.19	3.26
27.6	2.65	2.70	2.77	2.83	2.89	2.96	3.03	3.09	3.16	3.23	3.31
27.8	2.68	2.74	2.80	2.87	2.93	3.00	3.07	3.14	3.21	3.28	3.35
28.0	2.72	2.78	2.84	2.91	2.97	3.04	3.11	3.18	3.25	3.32	3.40

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.60	7.61	7.62	7.63	7.64	7.65	7.66	7.67	7.68	7.69	7.70
28.0	2.72	2.78	2.84	2.91	2.97	3.04	3.11	3.18	3.25	3.32	3.40
28.2	2.75	2.82	2.88	2.95	3.01	3.08	3.15	3.22	3.29	3.37	3.44
28.4	2.79	2.85	2.92	2.99	3.05	3.12	3.19	3.26	3.34	3.41	3.49
28.6	2.83	2.89	2.96	3.03	3.09	3.16	3.23	3.31	3.38	3.46	3.54
28.8	2.87	2.93	3.00	3.07	3.14	3.21	3.28	3.35	3.43	3.50	3.58
29.0	2.91	2.97	3.04	3.11	3.18	3.25	3.32	3.40	3.47	3.55	3.63
29.2	2.95	3.01	3.08	3.15	3.22	3.29	3.37	3.44	3.52	3.60	3.68
29.4	2.98	3.05	3.12	3.19	3.26	3.34	3.41	3.49	3.57	3.65	3.73
29.6	3.02	3.09	3.16	3.23	3.31	3.38	3.46	3.53	3.61	3.70	3.78
29.8	3.07	3.13	3.20	3.28	3.35	3.43	3.50	3.58	3.66	3.74	3.83
30.0	3.11	3.18	3.25	3.32	3.40	3.47	3.55	3.63	3.71	3.79	3.88
30.2	3.15	3.22	3.29	3.36	3.44	3.52	3.60	3.68	3.76	3.84	3.93
30.4	3.19	3.26	3.33	3.41	3.49	3.56	3.64	3.73	3.81	3.89	3.98
30.6	3.23	3.30	3.38	3.45	3.53	3.61	3.69	3.78	3.86	3.95	4.03
30.8	3.27	3.35	3.42	3.50	3.58	3.66	3.74	3.83	3.91	4.00	4.09
31.0	3.32	3.39	3.47	3.55	3.63	3.71	3.79	3.88	3.96	4.05	4.14
31.2	3.36	3.44	3.51	3.59	3.67	3.76	3.84	3.93	4.01	4.10	4.20
31.4	3.41	3.48	3.56	3.64	3.72	3.81	3.89	3.98	4.07	4.16	4.25
31.6	3.45	3.53	3.61	3.69	3.77	3.86	3.94	4.03	4.12	4.21	4.31
31.8	3.50	3.57	3.65	3.74	3.82	3.91	3.99	4.08	4.17	4.27	4.36
32.0	3.54	3.62	3.70	3.79	3.87	3.96	4.05	4.14	4.23	4.32	4.42
32.2	3.59	3.67	3.75	3.83	3.92	4.01	4.10	4.19	4.28	4.38	4.48
32.4	3.64	3.72	3.80	3.88	3.97	4.06	4.15	4.24	4.34	4.43	4.53
32.6	3.68	3.76	3.85	3.94	4.02	4.11	4.21	4.30	4.39	4.49	4.59
32.8	3.73	3.81	3.90	3.99	4.08	4.17	4.26	4.35	4.45	4.55	4.65
33.0	3.78	3.86	3.95	4.04	4.13	4.22	4.31	4.41	4.51	4.61	4.71
33.2	3.83	3.91	4.00	4.09	4.18	4.27	4.37	4.47	4.57	4.67	4.77
33.4	3.88	3.96	4.05	4.14	4.24	4.33	4.43	4.52	4.63	4.73	4.83
33.6	3.93	4.02	4.11	4.20	4.29	4.39	4.48	4.58	4.68	4.79	4.89
33.8	3.98	4.07	4.16	4.25	4.35	4.44	4.54	4.64	4.74	4.85	4.96
34.0	4.03	4.12	4.21	4.31	4.40	4.50	4.60	4.70	4.81	4.91	5.02
34.2	4.08	4.17	4.27	4.36	4.46	4.56	4.66	4.76	4.87	4.97	5.08
34.4	4.13	4.23	4.32	4.42	4.51	4.61	4.72	4.82	4.93	5.04	5.15
34.6	4.19	4.28	4.38	4.47	4.57	4.67	4.78	4.88	4.99	5.10	5.21
34.8	4.24	4.33	4.43	4.53	4.63	4.73	4.84	4.94	5.05	5.17	5.28
35.0	4.29	4.39	4.49	4.59	4.69	4.79	4.90	5.01	5.12	5.23	5.35

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.60	7.61	7.62	7.63	7.64	7.65	7.66	7.67	7.68	7.69	7.70
35.0	4.29	4.39	4.49	4.59	4.69	4.79	4.90	5.01	5.12	5.23	5.35
35.2	4.35	4.45	4.54	4.65	4.75	4.85	4.96	5.07	5.18	5.30	5.41
35.4	4.40	4.50	4.60	4.70	4.81	4.92	5.02	5.13	5.25	5.36	5.48
35.6	4.46	4.56	4.66	4.76	4.87	4.98	5.09	5.20	5.31	5.43	5.55
35.8	4.52	4.62	4.72	4.82	4.93	5.04	5.15	5.26	5.38	5.50	5.62
36.0	4.57	4.68	4.78	4.88	4.99	5.10	5.22	5.33	5.45	5.57	5.69
36.2	4.63	4.73	4.84	4.95	5.06	5.17	5.28	5.40	5.52	5.64	5.76
36.4	4.69	4.79	4.90	5.01	5.12	5.23	5.35	5.46	5.58	5.71	5.83
36.6	4.75	4.85	4.96	5.07	5.18	5.30	5.41	5.53	5.65	5.78	5.91
36.8	4.81	4.91	5.02	5.13	5.25	5.36	5.48	5.60	5.72	5.85	5.98
37.0	4.87	4.98	5.09	5.20	5.31	5.43	5.55	5.67	5.80	5.92	6.05
37.2	4.93	5.04	5.15	5.26	5.38	5.50	5.62	5.74	5.87	6.00	6.13
37.4	4.99	5.10	5.21	5.33	5.45	5.57	5.69	5.81	5.94	6.07	6.20
37.6	5.05	5.16	5.28	5.39	5.51	5.63	5.76	5.88	6.01	6.14	6.28
37.8	5.12	5.23	5.34	5.46	5.58	5.70	5.83	5.96	6.09	6.22	6.36
38.0	5.18	5.29	5.41	5.53	5.65	5.77	5.90	6.03	6.16	6.30	6.43
38.2	5.24	5.36	5.48	5.60	5.72	5.84	5.97	6.10	6.24	6.37	6.51
38.4	5.31	5.42	5.54	5.67	5.79	5.92	6.05	6.18	6.31	6.45	6.59
38.6	5.37	5.49	5.61	5.74	5.86	5.99	6.12	6.25	6.39	6.53	6.67
38.8	5.44	5.56	5.68	5.81	5.93	6.06	6.19	6.33	6.47	6.61	6.75
39.0	5.51	5.63	5.75	5.88	6.00	6.14	6.27	6.41	6.55	6.69	6.83
39.2	5.57	5.70	5.82	5.95	6.08	6.21	6.35	6.48	6.63	6.77	6.92
39.4	5.64	5.76	5.89	6.02	6.15	6.29	6.42	6.56	6.71	6.85	7.00
39.6	5.71	5.84	5.96	6.09	6.23	6.36	6.50	6.64	6.79	6.93	7.08
39.8	5.78	5.91	6.04	6.17	6.30	6.44	6.58	6.72	6.87	7.02	7.17
40.0	5.85	5.98	6.11	6.24	6.38	6.52	6.66	6.80	6.95	7.10	7.25

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.70	7.71	7.72	7.73	7.74	7.75	7.76	7.77	7.78	7.79	7.80
.0	.413	.422	.432	.442	.452	.463	.474	.485	.496	.507	.519
.2	.420	.429	.439	.450	.460	.471	.482	.493	.504	.516	.528
.4	.427	.437	.447	.457	.468	.479	.490	.501	.513	.524	.537
.6	.434	.444	.454	.465	.476	.487	.498	.509	.521	.533	.546
.8	.441	.451	.462	.473	.484	.495	.506	.518	.530	.542	.555
1.0	.449	.459	.470	.481	.492	.503	.515	.527	.539	.551	.564
1.2	.456	.467	.478	.489	.500	.512	.523	.536	.548	.561	.574
1.4	.464	.475	.486	.497	.508	.520	.532	.544	.557	.570	.583
1.6	.472	.482	.494	.505	.517	.529	.541	.554	.566	.580	.593
1.8	.479	.491	.502	.514	.525	.538	.550	.563	.576	.589	.603
2.0	.487	.499	.510	.522	.534	.547	.559	.572	.585	.599	.613
2.2	.496	.507	.519	.531	.543	.556	.569	.582	.595	.609	.623
2.4	.504	.515	.527	.540	.552	.565	.578	.591	.605	.619	.633
2.6	.512	.524	.536	.549	.561	.574	.588	.601	.615	.629	.644
2.8	.521	.533	.545	.558	.571	.584	.597	.611	.625	.640	.655
3.0	.529	.541	.554	.567	.580	.593	.607	.621	.636	.650	.665
3.2	.538	.550	.563	.576	.590	.603	.617	.631	.646	.661	.676
3.4	.547	.559	.572	.586	.599	.613	.627	.642	.657	.672	.687
3.6	.556	.569	.582	.595	.609	.623	.638	.652	.667	.683	.699
3.8	.565	.578	.591	.605	.619	.633	.648	.663	.678	.694	.710
4.0	.574	.588	.601	.615	.629	.644	.659	.674	.690	.706	.722
4.2	.584	.597	.611	.625	.640	.654	.670	.685	.701	.717	.734
4.4	.593	.607	.621	.635	.650	.665	.680	.696	.712	.729	.746
4.6	.603	.617	.631	.646	.661	.676	.692	.708	.724	.741	.758
4.8	.613	.627	.641	.656	.671	.687	.703	.719	.736	.753	.770
5.0	.623	.637	.652	.667	.682	.698	.714	.731	.748	.765	.783
5.2	.633	.647	.662	.678	.693	.709	.726	.743	.760	.777	.795
5.4	.643	.658	.673	.689	.705	.721	.738	.755	.772	.790	.808
5.6	.653	.669	.684	.700	.716	.733	.750	.767	.785	.803	.821
5.8	.664	.679	.695	.711	.728	.744	.762	.779	.797	.816	.835
6.0	.675	.690	.706	.723	.739	.756	.774	.792	.810	.829	.848
6.2	.686	.702	.718	.734	.751	.769	.786	.805	.823	.842	.862
6.4	.697	.713	.729	.746	.763	.781	.799	.818	.836	.856	.876
6.6	.708	.724	.741	.758	.776	.794	.812	.831	.850	.870	.890
6.8	.719	.736	.753	.770	.788	.806	.825	.844	.864	.883	.904
7.0	.731	.748	.765	.783	.801	.819	.838	.858	.877	.898	.918

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.70	7.71	7.72	7.73	7.74	7.75	7.76	7.77	7.78	7.79	7.80
7.0	.731	.748	.765	.783	.801	.819	.838	.858	.877	.898	.918
7.2	.743	.760	.777	.795	.814	.832	.852	.871	.891	.912	.933
7.4	.754	.772	.790	.808	.827	.846	.865	.885	.906	.926	.948
7.6	.766	.784	.802	.821	.840	.859	.879	.899	.920	.941	.963
7.8	.779	.797	.815	.834	.853	.873	.893	.914	.935	.956	.978
8.0	.791	.809	.828	.847	.867	.887	.907	.928	.949	.971	.994
8.2	.804	.822	.841	.861	.880	.901	.922	.943	.965	.987	1.010
8.4	.816	.835	.854	.874	.894	.915	.936	.958	.980	1.002	1.026
8.6	.829	.848	.868	.888	.909	.929	.951	.973	.995	1.018	1.042
8.8	.842	.862	.882	.902	.923	.944	.966	.988	1.011	1.034	1.058
9.0	.856	.875	.896	.916	.937	.959	.981	1.004	1.027	1.051	1.075
9.2	.869	.889	.910	.931	.952	.974	.997	1.020	1.043	1.067	1.092
9.4	.883	.903	.924	.945	.967	.989	1.012	1.036	1.059	1.084	1.109
9.6	.897	.917	.939	.960	.982	1.005	1.028	1.052	1.076	1.101	1.126
9.8	.911	.932	.953	.975	.998	1.021	1.044	1.068	1.093	1.118	1.144
10.0	.925	.946	.968	.990	1.013	1.037	1.061	1.085	1.110	1.136	1.162
10.2	.939	.961	.983	1.006	1.029	1.053	1.077	1.102	1.127	1.153	1.180
10.4	.954	.976	.999	1.022	1.045	1.069	1.094	1.119	1.145	1.171	1.198
10.6	.969	.991	1.014	1.038	1.061	1.086	1.111	1.137	1.163	1.189	1.217
10.8	.984	1.007	1.030	1.054	1.078	1.103	1.128	1.154	1.181	1.208	1.236
11.0	.999	1.022	1.046	1.070	1.095	1.120	1.146	1.172	1.199	1.227	1.255
11.2	1.01	1.04	1.06	1.09	1.11	1.14	1.16	1.19	1.22	1.25	1.27
11.4	1.03	1.05	1.08	1.10	1.13	1.15	1.18	1.21	1.24	1.26	1.29
11.6	1.05	1.07	1.10	1.12	1.15	1.17	1.20	1.23	1.26	1.28	1.31
11.8	1.06	1.09	1.11	1.14	1.16	1.19	1.22	1.25	1.27	1.30	1.33
12.0	1.08	1.10	1.13	1.16	1.18	1.21	1.24	1.27	1.29	1.32	1.35
12.2	1.10	1.12	1.15	1.17	1.20	1.23	1.26	1.28	1.31	1.34	1.38
12.4	1.11	1.14	1.16	1.19	1.22	1.25	1.28	1.30	1.33	1.37	1.40
12.6	1.13	1.16	1.18	1.21	1.24	1.27	1.29	1.32	1.35	1.39	1.42
12.8	1.15	1.17	1.20	1.23	1.26	1.29	1.31	1.34	1.38	1.41	1.44
13.0	1.16	1.19	1.22	1.25	1.28	1.30	1.33	1.37	1.40	1.43	1.46
13.2	1.18	1.21	1.24	1.27	1.29	1.32	1.35	1.39	1.42	1.45	1.48
13.4	1.20	1.23	1.26	1.28	1.31	1.34	1.38	1.41	1.44	1.47	1.51
13.6	1.22	1.25	1.28	1.30	1.33	1.37	1.40	1.43	1.46	1.49	1.53
13.8	1.24	1.27	1.29	1.32	1.35	1.39	1.42	1.45	1.48	1.52	1.55
14.0	1.26	1.28	1.31	1.34	1.38	1.41	1.44	1.47	1.51	1.54	1.58

TEMP DEG C	PH 7.70	7.71	7.72	7.73	7.74	7.75	7.76	7.77	7.78	7.79	7.80
14.0	1.26	1.28	1.31	1.34	1.38	1.41	1.44	1.47	1.51	1.54	1.58
14.2	1.27	1.30	1.33	1.36	1.40	1.43	1.46	1.49	1.53	1.56	1.60
14.4	1.29	1.32	1.35	1.39	1.42	1.45	1.48	1.52	1.55	1.59	1.62
14.6	1.31	1.34	1.37	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65
14.8	1.33	1.36	1.40	1.43	1.46	1.49	1.53	1.56	1.60	1.64	1.67
15.0	1.35	1.38	1.42	1.45	1.48	1.52	1.55	1.59	1.62	1.66	1.70
15.2	1.37	1.41	1.44	1.47	1.50	1.54	1.57	1.61	1.65	1.68	1.72
15.4	1.39	1.43	1.46	1.49	1.53	1.56	1.60	1.63	1.67	1.71	1.75
15.6	1.42	1.45	1.48	1.52	1.55	1.59	1.62	1.66	1.70	1.74	1.78
15.8	1.44	1.47	1.50	1.54	1.57	1.61	1.65	1.68	1.72	1.76	1.80
16.0	1.46	1.49	1.53	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83
16.2	1.48	1.51	1.55	1.58	1.62	1.66	1.70	1.73	1.77	1.81	1.86
16.4	1.50	1.54	1.57	1.61	1.64	1.68	1.72	1.76	1.80	1.84	1.88
16.6	1.52	1.56	1.59	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91
16.8	1.55	1.58	1.62	1.66	1.69	1.73	1.77	1.81	1.85	1.90	1.94
17.0	1.57	1.61	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.97
17.2	1.59	1.63	1.67	1.70	1.74	1.78	1.82	1.87	1.91	1.95	2.00
17.4	1.62	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.94	1.98	2.03
17.6	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.97	2.01	2.06
17.8	1.66	1.70	1.74	1.78	1.82	1.86	1.91	1.95	1.99	2.04	2.09
18.0	1.69	1.73	1.77	1.81	1.85	1.89	1.93	1.98	2.02	2.07	2.12
18.2	1.71	1.75	1.79	1.83	1.88	1.92	1.96	2.01	2.05	2.10	2.15
18.4	1.74	1.78	1.82	1.86	1.90	1.95	1.99	2.04	2.08	2.13	2.18
18.6	1.76	1.80	1.85	1.89	1.93	1.97	2.02	2.07	2.11	2.16	2.21
18.8	1.79	1.83	1.87	1.92	1.96	2.00	2.05	2.10	2.14	2.19	2.24
19.0	1.82	1.86	1.90	1.94	1.99	2.03	2.08	2.13	2.18	2.22	2.28
19.2	1.84	1.88	1.93	1.97	2.02	2.06	2.11	2.16	2.21	2.26	2.31
19.4	1.87	1.91	1.96	2.00	2.05	2.09	2.14	2.19	2.24	2.29	2.34
19.6	1.90	1.94	1.98	2.03	2.08	2.12	2.17	2.22	2.27	2.32	2.38
19.8	1.92	1.97	2.01	2.06	2.11	2.15	2.20	2.25	2.30	2.36	2.41
20.0	1.95	2.00	2.04	2.09	2.14	2.18	2.23	2.28	2.34	2.39	2.44
20.2	1.98	2.02	2.07	2.12	2.17	2.22	2.27	2.32	2.37	2.42	2.48
20.4	2.01	2.05	2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.46	2.51
20.6	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55
20.8	2.07	2.11	2.16	2.21	2.26	2.31	2.36	2.42	2.47	2.53	2.59
21.0	2.10	2.14	2.19	2.24	2.29	2.35	2.40	2.45	2.51	2.57	2.62

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.70	7.71	7.72	7.73	7.74	7.75	7.76	7.77	7.78	7.79	7.80
21.0	2.10	2.14	2.19	2.24	2.29	2.35	2.40	2.45	2.51	2.57	2.62
21.2	2.13	2.17	2.22	2.27	2.33	2.38	2.43	2.49	2.54	2.60	2.66
21.4	2.16	2.21	2.26	2.31	2.36	2.41	2.47	2.52	2.58	2.64	2.70
21.6	2.19	2.24	2.29	2.34	2.39	2.45	2.50	2.56	2.62	2.68	2.74
21.8	2.22	2.27	2.32	2.37	2.43	2.48	2.54	2.60	2.65	2.71	2.78
22.0	2.25	2.30	2.35	2.41	2.46	2.52	2.57	2.63	2.69	2.75	2.82
22.2	2.28	2.33	2.39	2.44	2.50	2.55	2.61	2.67	2.73	2.79	2.86
22.4	2.31	2.37	2.42	2.47	2.53	2.59	2.65	2.71	2.77	2.83	2.90
22.6	2.35	2.40	2.45	2.51	2.57	2.63	2.68	2.75	2.81	2.87	2.94
22.8	2.38	2.43	2.49	2.55	2.60	2.66	2.72	2.78	2.85	2.91	2.98
23.0	2.41	2.47	2.52	2.58	2.64	2.70	2.76	2.82	2.89	2.95	3.02
23.2	2.45	2.50	2.56	2.62	2.68	2.74	2.80	2.86	2.93	2.99	3.06
23.4	2.48	2.54	2.60	2.65	2.71	2.78	2.84	2.90	2.97	3.04	3.10
23.6	2.52	2.57	2.63	2.69	2.75	2.81	2.88	2.94	3.01	3.08	3.15
23.8	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98	3.05	3.12	3.19
24.0	2.59	2.65	2.71	2.77	2.83	2.89	2.96	3.03	3.09	3.16	3.24
24.2	2.62	2.68	2.74	2.81	2.87	2.93	3.00	3.07	3.14	3.21	3.28
24.4	2.66	2.72	2.78	2.84	2.91	2.97	3.04	3.11	3.18	3.25	3.33
24.6	2.70	2.76	2.82	2.88	2.95	3.02	3.08	3.15	3.22	3.30	3.37
24.8	2.73	2.80	2.86	2.92	2.99	3.06	3.13	3.20	3.27	3.34	3.42
25.0	2.77	2.83	2.90	2.96	3.03	3.10	3.17	3.24	3.31	3.39	3.46
25.2	2.81	2.87	2.94	3.00	3.07	3.14	3.21	3.29	3.36	3.43	3.51
25.4	2.85	2.91	2.98	3.05	3.12	3.19	3.26	3.33	3.41	3.48	3.56
25.6	2.89	2.95	3.02	3.09	3.16	3.23	3.30	3.38	3.45	3.53	3.61
25.8	2.93	2.99	3.06	3.13	3.20	3.27	3.35	3.42	3.50	3.58	3.66
26.0	2.97	3.04	3.10	3.17	3.25	3.32	3.39	3.47	3.55	3.63	3.71
26.2	3.01	3.08	3.15	3.22	3.29	3.36	3.44	3.52	3.60	3.68	3.76
26.4	3.05	3.12	3.19	3.26	3.33	3.41	3.49	3.56	3.64	3.73	3.81
26.6	3.09	3.16	3.23	3.31	3.38	3.46	3.53	3.61	3.69	3.78	3.86
26.8	3.13	3.20	3.28	3.35	3.43	3.50	3.58	3.66	3.74	3.83	3.91
27.0	3.18	3.25	3.32	3.40	3.47	3.55	3.63	3.71	3.79	3.88	3.97
27.2	3.22	3.29	3.37	3.44	3.52	3.60	3.68	3.76	3.85	3.93	4.02
27.4	3.26	3.34	3.41	3.49	3.57	3.65	3.73	3.81	3.90	3.98	4.07
27.6	3.31	3.38	3.46	3.54	3.61	3.70	3.78	3.86	3.95	4.04	4.13
27.8	3.35	3.43	3.50	3.58	3.66	3.75	3.83	3.92	4.00	4.09	4.18
28.0	3.40	3.47	3.55	3.63	3.71	3.80	3.88	3.97	4.06	4.15	4.24

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.70	7.71	7.72	7.73	7.74	7.75	7.76	7.77	7.78	7.79	7.80
28.0	3.40	3.47	3.55	3.63	3.71	3.80	3.88	3.97	4.06	4.15	4.24
28.2	3.44	3.52	3.60	3.68	3.76	3.85	3.93	4.02	4.11	4.20	4.30
28.4	3.49	3.57	3.65	3.73	3.81	3.90	3.99	4.07	4.17	4.26	4.35
28.6	3.54	3.62	3.70	3.78	3.86	3.95	4.04	4.13	4.22	4.31	4.41
28.8	3.58	3.66	3.75	3.83	3.92	4.00	4.09	4.18	4.28	4.37	4.47
29.0	3.63	3.71	3.80	3.88	3.97	4.06	4.15	4.24	4.33	4.43	4.53
29.2	3.68	3.76	3.85	3.93	4.02	4.11	4.20	4.30	4.39	4.49	4.59
29.4	3.73	3.81	3.90	3.98	4.07	4.16	4.26	4.35	4.45	4.55	4.65
29.6	3.78	3.86	3.95	4.04	4.13	4.22	4.31	4.41	4.51	4.61	4.71
29.8	3.83	3.91	4.00	4.09	4.18	4.28	4.37	4.47	4.57	4.67	4.77
30.0	3.88	3.97	4.05	4.14	4.24	4.33	4.43	4.53	4.63	4.73	4.83
30.2	3.93	4.02	4.11	4.20	4.29	4.39	4.49	4.59	4.69	4.79	4.90
30.4	3.98	4.07	4.16	4.25	4.35	4.45	4.55	4.65	4.75	4.85	4.96
30.6	4.03	4.12	4.22	4.31	4.41	4.50	4.60	4.71	4.81	4.92	5.03
30.8	4.09	4.18	4.27	4.37	4.46	4.56	4.66	4.77	4.87	4.98	5.09
31.0	4.14	4.23	4.33	4.42	4.52	4.62	4.73	4.83	4.94	5.05	5.16
31.2	4.20	4.29	4.38	4.48	4.58	4.68	4.79	4.89	5.00	5.11	5.22
31.4	4.25	4.34	4.44	4.54	4.64	4.74	4.85	4.96	5.07	5.18	5.29
31.6	4.31	4.40	4.50	4.60	4.70	4.81	4.91	5.02	5.13	5.25	5.36
31.8	4.36	4.46	4.56	4.66	4.76	4.87	4.98	5.09	5.20	5.31	5.43
32.0	4.42	4.52	4.62	4.72	4.82	4.93	5.04	5.15	5.26	5.38	5.50
32.2	4.48	4.58	4.68	4.78	4.89	4.99	5.10	5.22	5.33	5.45	5.57
32.4	4.53	4.63	4.74	4.84	4.95	5.06	5.17	5.28	5.40	5.52	5.64
32.6	4.59	4.69	4.80	4.90	5.01	5.12	5.24	5.35	5.47	5.59	5.71
32.8	4.65	4.75	4.86	4.97	5.08	5.19	5.30	5.42	5.54	5.66	5.79
33.0	4.71	4.82	4.92	5.03	5.14	5.26	5.37	5.49	5.61	5.73	5.86
33.2	4.77	4.88	4.99	5.10	5.21	5.32	5.44	5.56	5.68	5.81	5.93
33.4	4.83	4.94	5.05	5.16	5.27	5.39	5.51	5.63	5.75	5.88	6.01
33.6	4.89	5.00	5.11	5.23	5.34	5.46	5.58	5.70	5.83	5.95	6.08
33.8	4.96	5.07	5.18	5.29	5.41	5.53	5.65	5.77	5.90	6.03	6.16
34.0	5.02	5.13	5.24	5.36	5.48	5.60	5.72	5.85	5.98	6.11	6.24
34.2	5.08	5.20	5.31	5.43	5.55	5.67	5.79	5.92	6.05	6.18	6.32
34.4	5.15	5.26	5.38	5.50	5.62	5.74	5.87	6.00	6.13	6.26	6.40
34.6	5.21	5.33	5.45	5.57	5.69	5.81	5.94	6.07	6.20	6.34	6.48
34.8	5.28	5.40	5.52	5.64	5.76	5.89	6.02	6.15	6.28	6.42	6.56
35.0	5.35	5.46	5.58	5.71	5.83	5.96	6.09	6.22	6.36	6.50	6.64

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.70	7.71	7.72	7.73	7.74	7.75	7.76	7.77	7.78	7.79	7.80
35.0	5.35	5.46	5.58	5.71	5.83	5.96	6.09	6.22	6.36	6.50	6.64
35.2	5.41	5.53	5.65	5.78	5.91	6.03	6.17	6.30	6.44	6.58	6.72
35.4	5.48	5.60	5.73	5.85	5.98	6.11	6.24	6.38	6.52	6.66	6.80
35.6	5.55	5.67	5.80	5.92	6.05	6.19	6.32	6.46	6.60	6.74	6.89
35.8	5.62	5.74	5.87	6.00	6.13	6.26	6.40	6.54	6.68	6.83	6.97
36.0	5.69	5.82	5.94	6.07	6.21	6.34	6.48	6.62	6.76	6.91	7.06
36.2	5.76	5.89	6.02	6.15	6.28	6.42	6.56	6.70	6.85	6.99	7.15
36.4	5.83	5.96	6.09	6.22	6.36	6.50	6.64	6.78	6.93	7.08	7.23
36.6	5.91	6.03	6.17	6.30	6.44	6.58	6.72	6.87	7.02	7.17	7.32
36.8	5.98	6.11	6.24	6.38	6.52	6.66	6.80	6.95	7.10	7.26	7.41
37.0	6.05	6.18	6.32	6.46	6.60	6.74	6.89	7.04	7.19	7.34	7.50
37.2	6.13	6.26	6.40	6.54	6.68	6.82	6.97	7.12	7.28	7.43	7.59
37.4	6.20	6.34	6.48	6.62	6.76	6.91	7.06	7.21	7.36	7.52	7.68
37.6	6.28	6.42	6.56	6.70	6.84	6.99	7.14	7.30	7.45	7.61	7.78
37.8	6.36	6.49	6.64	6.78	6.93	7.08	7.23	7.38	7.54	7.71	7.87
38.0	6.43	6.57	6.72	6.86	7.01	7.16	7.32	7.47	7.64	7.80	7.97
38.2	6.51	6.65	6.80	6.95	7.10	7.25	7.41	7.56	7.73	7.89	8.06
38.4	6.59	6.73	6.88	7.03	7.18	7.34	7.49	7.66	7.82	7.99	8.16
38.6	6.67	6.82	6.96	7.11	7.27	7.42	7.58	7.75	7.91	8.08	8.26
38.8	6.75	6.90	7.05	7.20	7.36	7.51	7.68	7.84	8.01	8.18	8.35
39.0	6.83	6.98	7.13	7.29	7.44	7.60	7.77	7.93	8.10	8.28	8.45
39.2	6.92	7.07	7.22	7.37	7.53	7.70	7.86	8.03	8.20	8.38	8.55
39.4	7.00	7.15	7.31	7.46	7.62	7.79	7.95	8.12	8.30	8.47	8.66
39.6	7.08	7.24	7.39	7.55	7.71	7.88	8.05	8.22	8.40	8.57	8.76
39.8	7.17	7.32	7.48	7.64	7.81	7.97	8.14	8.32	8.50	8.68	8.86
40.0	7.25	7.41	7.57	7.73	7.90	8.07	8.24	8.42	8.60	8.78	8.96

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.80	7.81	7.82	7.83	7.84	7.85	7.86	7.87	7.88	7.89	7.90
.0	.519	.531	.543	.556	.569	.582	.595	.609	.623	.638	.652
.2	.528	.540	.552	.565	.578	.592	.605	.619	.634	.648	.663
.4	.537	.549	.562	.575	.588	.602	.616	.630	.644	.659	.675
.6	.546	.558	.571	.584	.598	.612	.626	.640	.655	.670	.686
.8	.555	.568	.581	.594	.608	.622	.637	.651	.666	.682	.698
1.0	.564	.577	.591	.604	.618	.633	.647	.662	.677	.693	.709
1.2	.574	.587	.600	.614	.629	.643	.658	.673	.689	.705	.721
1.4	.583	.597	.611	.625	.639	.654	.669	.684	.700	.717	.733
1.6	.593	.607	.621	.635	.650	.665	.680	.696	.712	.728	.745
1.8	.603	.617	.631	.646	.661	.676	.691	.707	.724	.741	.758
2.0	.613	.627	.642	.656	.672	.687	.703	.719	.736	.753	.770
2.2	.623	.637	.652	.667	.683	.699	.715	.731	.748	.765	.783
2.4	.633	.648	.663	.678	.694	.710	.727	.743	.760	.778	.796
2.6	.644	.659	.674	.690	.706	.722	.739	.756	.773	.791	.809
2.8	.655	.670	.685	.701	.717	.734	.751	.768	.786	.804	.823
3.0	.665	.681	.696	.713	.729	.746	.763	.781	.799	.817	.836
3.2	.676	.692	.708	.724	.741	.758	.776	.794	.812	.831	.850
3.4	.687	.703	.720	.736	.753	.771	.788	.807	.825	.844	.864
3.6	.699	.715	.731	.748	.766	.783	.801	.820	.839	.858	.878
3.8	.710	.727	.743	.761	.778	.796	.815	.833	.853	.872	.892
4.0	.722	.739	.756	.773	.791	.809	.828	.847	.867	.887	.907
4.2	.734	.751	.768	.786	.804	.822	.841	.861	.881	.901	.922
4.4	.746	.763	.780	.799	.817	.836	.855	.875	.895	.916	.937
4.6	.758	.775	.793	.812	.830	.849	.869	.889	.910	.931	.952
4.8	.770	.788	.806	.825	.844	.863	.883	.904	.924	.946	.968
5.0	.783	.801	.819	.838	.857	.877	.898	.918	.939	.961	.983
5.2	.795	.814	.832	.852	.871	.892	.912	.933	.955	.977	.999
5.4	.808	.827	.846	.866	.885	.906	.927	.948	.970	.992	1.015
5.6	.821	.840	.860	.880	.900	.921	.942	.964	.986	1.008	1.032
5.8	.835	.854	.874	.894	.914	.935	.957	.979	1.002	1.025	1.048
6.0	.848	.868	.888	.908	.929	.951	.972	.995	1.018	1.041	1.065
6.2	.862	.882	.902	.923	.944	.966	.988	1.011	1.034	1.058	1.082
6.4	.876	.896	.916	.938	.959	.981	1.004	1.027	1.051	1.075	1.100
6.6	.890	.910	.931	.953	.975	.997	1.020	1.044	1.068	1.092	1.117
6.8	.904	.925	.946	.968	.990	1.013	1.036	1.060	1.085	1.110	1.135
7.0	.918	.939	.961	.983	1.006	1.029	1.053	1.077	1.102	1.127	1.153

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.80	7.81	7.82	7.83	7.84	7.85	7.86	7.87	7.88	7.89	7.90
7.0	.918	.939	.961	.983	1.006	1.029	1.053	1.077	1.102	1.127	1.153
7.2	.933	.954	.977	.999	1.022	1.046	1.070	1.094	1.120	1.145	1.172
7.4	.948	.970	.992	1.015	1.038	1.062	1.087	1.112	1.137	1.164	1.190
7.6	.963	.985	1.008	1.031	1.055	1.079	1.104	1.129	1.155	1.182	1.209
7.8	.978	1.001	1.024	1.047	1.072	1.096	1.122	1.147	1.174	1.201	1.228
8.0	.994	1.017	1.040	1.064	1.089	1.114	1.139	1.166	1.192	1.220	1.248
8.2	1.01	1.03	1.06	1.08	1.11	1.13	1.16	1.18	1.21	1.24	1.27
8.4	1.03	1.05	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26	1.29
8.6	1.04	1.07	1.09	1.12	1.14	1.17	1.19	1.22	1.25	1.28	1.31
8.8	1.06	1.08	1.11	1.13	1.16	1.19	1.21	1.24	1.27	1.30	1.33
9.0	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26	1.29	1.32	1.35
9.2	1.09	1.12	1.14	1.17	1.20	1.22	1.25	1.28	1.31	1.34	1.37
9.4	1.11	1.13	1.16	1.19	1.21	1.24	1.27	1.30	1.33	1.36	1.39
9.6	1.13	1.15	1.18	1.21	1.23	1.26	1.29	1.32	1.35	1.38	1.41
9.8	1.14	1.17	1.20	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.44
10.0	1.16	1.19	1.22	1.24	1.27	1.30	1.33	1.36	1.39	1.43	1.46
10.2	1.18	1.21	1.23	1.26	1.29	1.32	1.35	1.38	1.42	1.45	1.48
10.4	1.20	1.23	1.25	1.28	1.31	1.34	1.37	1.40	1.44	1.47	1.50
10.6	1.22	1.24	1.27	1.30	1.33	1.36	1.39	1.43	1.46	1.49	1.53
10.8	1.24	1.26	1.29	1.32	1.35	1.38	1.42	1.45	1.48	1.52	1.55
11.0	1.25	1.28	1.31	1.34	1.37	1.41	1.44	1.47	1.50	1.54	1.57
11.2	1.27	1.30	1.33	1.36	1.40	1.43	1.46	1.49	1.53	1.56	1.60
11.4	1.29	1.32	1.35	1.39	1.42	1.45	1.48	1.52	1.55	1.59	1.62
11.6	1.31	1.34	1.37	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65
11.8	1.33	1.36	1.40	1.43	1.46	1.49	1.53	1.56	1.60	1.64	1.67
12.0	1.35	1.39	1.42	1.45	1.48	1.52	1.55	1.59	1.62	1.66	1.70
12.2	1.38	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65	1.69	1.73
12.4	1.40	1.43	1.46	1.49	1.53	1.56	1.60	1.64	1.67	1.71	1.75
12.6	1.42	1.45	1.48	1.52	1.55	1.59	1.62	1.66	1.70	1.74	1.78
12.8	1.44	1.47	1.51	1.54	1.58	1.61	1.65	1.69	1.73	1.77	1.81
13.0	1.46	1.50	1.53	1.56	1.60	1.64	1.67	1.71	1.75	1.79	1.83
13.2	1.48	1.52	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82	1.86
13.4	1.51	1.54	1.58	1.61	1.65	1.69	1.73	1.77	1.81	1.85	1.89
13.6	1.53	1.56	1.60	1.64	1.67	1.71	1.75	1.79	1.83	1.87	1.92
13.8	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.95
14.0	1.58	1.61	1.65	1.69	1.73	1.76	1.81	1.85	1.89	1.93	1.98

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.80	7.81	7.82	7.83	7.84	7.85	7.86	7.87	7.88	7.89	7.90
14.0	1.58	1.61	1.65	1.69	1.73	1.76	1.81	1.85	1.89	1.93	1.98
14.2	1.60	1.64	1.67	1.71	1.75	1.79	1.83	1.87	1.92	1.96	2.01
14.4	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.95	1.99	2.04
14.6	1.65	1.69	1.72	1.76	1.80	1.85	1.89	1.93	1.97	2.02	2.07
14.8	1.67	1.71	1.75	1.79	1.83	1.87	1.92	1.96	2.00	2.05	2.10
15.0	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.99	2.03	2.08	2.13
15.2	1.72	1.76	1.80	1.84	1.89	1.93	1.97	2.02	2.06	2.11	2.16
15.4	1.75	1.79	1.83	1.87	1.91	1.96	2.00	2.05	2.10	2.14	2.19
15.6	1.78	1.82	1.86	1.90	1.94	1.99	2.03	2.08	2.13	2.18	2.22
15.8	1.80	1.84	1.89	1.93	1.97	2.02	2.06	2.11	2.16	2.21	2.26
16.0	1.83	1.87	1.91	1.96	2.00	2.05	2.09	2.14	2.19	2.24	2.29
16.2	1.86	1.90	1.94	1.99	2.03	2.08	2.12	2.17	2.22	2.27	2.33
16.4	1.88	1.93	1.97	2.02	2.06	2.11	2.16	2.21	2.26	2.31	2.36
16.6	1.91	1.95	2.00	2.04	2.09	2.14	2.19	2.24	2.29	2.34	2.39
16.8	1.94	1.98	2.03	2.08	2.12	2.17	2.22	2.27	2.32	2.38	2.43
17.0	1.97	2.01	2.06	2.11	2.15	2.20	2.25	2.30	2.36	2.41	2.46
17.2	2.00	2.04	2.09	2.14	2.19	2.24	2.29	2.34	2.39	2.45	2.50
17.4	2.03	2.07	2.12	2.17	2.22	2.27	2.32	2.37	2.43	2.48	2.54
17.6	2.06	2.10	2.15	2.20	2.25	2.30	2.35	2.41	2.46	2.52	2.57
17.8	2.09	2.13	2.18	2.23	2.28	2.33	2.39	2.44	2.50	2.55	2.61
18.0	2.12	2.16	2.21	2.26	2.32	2.37	2.42	2.48	2.53	2.59	2.65
18.2	2.15	2.20	2.25	2.30	2.35	2.40	2.46	2.51	2.57	2.63	2.69
18.4	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55	2.61	2.67	2.73
18.6	2.21	2.26	2.31	2.36	2.42	2.47	2.53	2.59	2.65	2.71	2.77
18.8	2.24	2.29	2.35	2.40	2.45	2.51	2.57	2.62	2.68	2.74	2.81
19.0	2.28	2.33	2.38	2.43	2.49	2.55	2.60	2.66	2.72	2.78	2.85
19.2	2.31	2.36	2.41	2.47	2.53	2.58	2.64	2.70	2.76	2.82	2.89
19.4	2.34	2.39	2.45	2.50	2.56	2.62	2.68	2.74	2.80	2.87	2.93
19.6	2.38	2.43	2.48	2.54	2.60	2.66	2.72	2.78	2.84	2.91	2.97
19.8	2.41	2.46	2.52	2.58	2.64	2.70	2.76	2.82	2.88	2.95	3.01
20.0	2.44	2.50	2.56	2.61	2.67	2.73	2.80	2.86	2.92	2.99	3.06
20.2	2.48	2.54	2.59	2.65	2.71	2.77	2.84	2.90	2.97	3.03	3.10
20.4	2.51	2.57	2.63	2.69	2.75	2.81	2.88	2.94	3.01	3.08	3.15
20.6	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98	3.05	3.12	3.19
20.8	2.59	2.65	2.71	2.77	2.83	2.89	2.96	3.03	3.09	3.16	3.24
21.0	2.62	2.68	2.74	2.81	2.87	2.93	3.00	3.07	3.14	3.21	3.28

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.80	7.81	7.82	7.83	7.84	7.85	7.86	7.87	7.88	7.89	7.90
21.0	2.62	2.68	2.74	2.81	2.87	2.93	3.00	3.07	3.14	3.21	3.28
21.2	2.66	2.72	2.78	2.85	2.91	2.98	3.04	3.11	3.18	3.25	3.33
21.4	2.70	2.76	2.82	2.89	2.95	3.02	3.09	3.16	3.23	3.30	3.37
21.6	2.74	2.80	2.86	2.93	2.99	3.06	3.13	3.20	3.27	3.35	3.42
21.8	2.78	2.84	2.90	2.97	3.04	3.10	3.17	3.25	3.32	3.39	3.47
22.0	2.82	2.88	2.94	3.01	3.08	3.15	3.22	3.29	3.37	3.44	3.52
22.2	2.86	2.92	2.99	3.05	3.12	3.19	3.26	3.34	3.41	3.49	3.57
22.4	2.90	2.96	3.03	3.10	3.17	3.24	3.31	3.38	3.46	3.54	3.62
22.6	2.94	3.00	3.07	3.14	3.21	3.28	3.36	3.43	3.51	3.59	3.67
22.8	2.98	3.04	3.11	3.18	3.26	3.33	3.40	3.48	3.56	3.64	3.72
23.0	3.02	3.09	3.16	3.23	3.30	3.37	3.45	3.53	3.61	3.69	3.77
23.2	3.06	3.13	3.20	3.27	3.35	3.42	3.50	3.58	3.66	3.74	3.82
23.4	3.10	3.17	3.25	3.32	3.39	3.47	3.55	3.63	3.71	3.79	3.88
23.6	3.15	3.22	3.29	3.36	3.44	3.52	3.60	3.68	3.76	3.84	3.93
23.8	3.19	3.26	3.34	3.41	3.49	3.57	3.65	3.73	3.81	3.90	3.98
24.0	3.24	3.31	3.38	3.46	3.54	3.62	3.70	3.78	3.86	3.95	4.04
24.2	3.28	3.35	3.43	3.51	3.58	3.67	3.75	3.83	3.92	4.00	4.09
24.4	3.33	3.40	3.48	3.55	3.63	3.72	3.80	3.88	3.97	4.06	4.15
24.6	3.37	3.45	3.52	3.60	3.68	3.77	3.85	3.94	4.03	4.12	4.21
24.8	3.42	3.49	3.57	3.65	3.73	3.82	3.90	3.99	4.08	4.17	4.26
25.0	3.46	3.54	3.62	3.70	3.79	3.87	3.96	4.05	4.14	4.23	4.32
25.2	3.51	3.59	3.67	3.75	3.84	3.92	4.01	4.10	4.19	4.29	4.38
25.4	3.56	3.64	3.72	3.81	3.89	3.98	4.07	4.16	4.25	4.34	4.44
25.6	3.61	3.69	3.77	3.86	3.94	4.03	4.12	4.21	4.31	4.40	4.50
25.8	3.66	3.74	3.82	3.91	4.00	4.09	4.18	4.27	4.37	4.46	4.56
26.0	3.71	3.79	3.88	3.96	4.05	4.14	4.23	4.33	4.42	4.52	4.62
26.2	3.76	3.84	3.93	4.02	4.11	4.20	4.29	4.39	4.48	4.58	4.69
26.4	3.81	3.89	3.98	4.07	4.16	4.25	4.35	4.45	4.54	4.65	4.75
26.6	3.86	3.95	4.04	4.13	4.22	4.31	4.41	4.51	4.61	4.71	4.81
26.8	3.91	4.00	4.09	4.18	4.27	4.37	4.47	4.57	4.67	4.77	4.88
27.0	3.97	4.05	4.15	4.24	4.33	4.43	4.53	4.63	4.73	4.84	4.94
27.2	4.02	4.11	4.20	4.29	4.39	4.49	4.59	4.69	4.79	4.90	5.01
27.4	4.07	4.16	4.26	4.35	4.45	4.55	4.65	4.75	4.86	4.96	5.07
27.6	4.13	4.22	4.31	4.41	4.51	4.61	4.71	4.82	4.92	5.03	5.14
27.8	4.18	4.28	4.37	4.47	4.57	4.67	4.77	4.88	4.99	5.10	5.21
28.0	4.24	4.33	4.43	4.53	4.63	4.73	4.84	4.94	5.05	5.17	5.28

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.80	7.81	7.82	7.83	7.84	7.85	7.86	7.87	7.88	7.89	7.90
28.0	4.24	4.33	4.43	4.53	4.63	4.73	4.84	4.94	5.05	5.17	5.28
28.2	4.30	4.39	4.49	4.59	4.69	4.80	4.90	5.01	5.12	5.23	5.35
28.4	4.35	4.45	4.55	4.65	4.75	4.86	4.97	5.08	5.19	5.30	5.42
28.6	4.41	4.51	4.61	4.71	4.82	4.92	5.03	5.14	5.26	5.37	5.49
28.8	4.47	4.57	4.67	4.77	4.88	4.99	5.10	5.21	5.33	5.44	5.56
29.0	4.53	4.63	4.73	4.84	4.94	5.05	5.17	5.28	5.40	5.51	5.64
29.2	4.59	4.69	4.79	4.90	5.01	5.12	5.23	5.35	5.47	5.59	5.71
29.4	4.65	4.75	4.86	4.97	5.07	5.19	5.30	5.42	5.54	5.66	5.78
29.6	4.71	4.81	4.92	5.03	5.14	5.25	5.37	5.49	5.61	5.73	5.86
29.8	4.77	4.88	4.99	5.10	5.21	5.32	5.44	5.56	5.68	5.81	5.93
30.0	4.83	4.94	5.05	5.16	5.28	5.39	5.51	5.63	5.76	5.88	6.01
30.2	4.90	5.01	5.12	5.23	5.35	5.46	5.58	5.71	5.83	5.96	6.09
30.4	4.96	5.07	5.18	5.30	5.41	5.53	5.66	5.78	5.91	6.04	6.17
30.6	5.03	5.14	5.25	5.37	5.48	5.61	5.73	5.85	5.98	6.11	6.25
30.8	5.09	5.20	5.32	5.44	5.56	5.68	5.80	5.93	6.06	6.19	6.33
31.0	5.16	5.27	5.39	5.51	5.63	5.75	5.88	6.01	6.14	6.27	6.41
31.2	5.22	5.34	5.46	5.58	5.70	5.83	5.95	6.08	6.22	6.35	6.49
31.4	5.29	5.41	5.53	5.65	5.77	5.90	6.03	6.16	6.30	6.43	6.57
31.6	5.36	5.48	5.60	5.72	5.85	5.98	6.11	6.24	6.38	6.51	6.66
31.8	5.43	5.55	5.67	5.80	5.92	6.05	6.18	6.32	6.46	6.60	6.74
32.0	5.50	5.62	5.74	5.87	6.00	6.13	6.26	6.40	6.54	6.68	6.83
32.2	5.57	5.69	5.82	5.94	6.07	6.21	6.34	6.48	6.62	6.77	6.91
32.4	5.64	5.77	5.89	6.02	6.15	6.29	6.42	6.56	6.71	6.85	7.00
32.6	5.71	5.84	5.97	6.10	6.23	6.37	6.50	6.65	6.79	6.94	7.09
32.8	5.79	5.91	6.04	6.17	6.31	6.45	6.59	6.73	6.88	7.02	7.18
33.0	5.86	5.99	6.12	6.25	6.39	6.53	6.67	6.81	6.96	7.11	7.27
33.2	5.93	6.06	6.20	6.33	6.47	6.61	6.75	6.90	7.05	7.20	7.36
33.4	6.01	6.14	6.27	6.41	6.55	6.69	6.84	6.99	7.14	7.29	7.45
33.6	6.08	6.22	6.35	6.49	6.63	6.78	6.92	7.07	7.23	7.38	7.54
33.8	6.16	6.30	6.43	6.57	6.72	6.86	7.01	7.16	7.32	7.47	7.64
34.0	6.24	6.38	6.51	6.66	6.80	6.95	7.10	7.25	7.41	7.57	7.73
34.2	6.32	6.46	6.60	6.74	6.89	7.03	7.19	7.34	7.50	7.66	7.83
34.4	6.40	6.54	6.68	6.82	6.97	7.12	7.28	7.43	7.59	7.76	7.92
34.6	6.48	6.62	6.76	6.91	7.06	7.21	7.37	7.52	7.69	7.85	8.02
34.8	6.56	6.70	6.85	6.99	7.14	7.30	7.46	7.62	7.78	7.95	8.12
35.0	6.64	6.78	6.93	7.08	7.23	7.39	7.55	7.71	7.88	8.04	8.22

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.80	7.81	7.82	7.83	7.84	7.85	7.86	7.87	7.88	7.89	7.90
35.0	6.64	6.78	6.93	7.08	7.23	7.39	7.55	7.71	7.88	8.04	8.22
35.2	6.72	6.87	7.02	7.17	7.32	7.48	7.64	7.81	7.97	8.14	8.32
35.4	6.80	6.95	7.10	7.26	7.41	7.57	7.73	7.90	8.07	8.24	8.42
35.6	6.89	7.04	7.19	7.35	7.50	7.66	7.83	8.00	8.17	8.34	8.52
35.8	6.97	7.12	7.28	7.44	7.60	7.76	7.93	8.09	8.27	8.44	8.62
36.0	7.06	7.21	7.37	7.53	7.69	7.85	8.02	8.19	8.37	8.55	8.73
36.2	7.15	7.30	7.46	7.62	7.78	7.95	8.12	8.29	8.47	8.65	8.83
36.4	7.23	7.39	7.55	7.71	7.88	8.05	8.22	8.39	8.57	8.75	8.94
36.6	7.32	7.48	7.64	7.81	7.97	8.14	8.32	8.49	8.67	8.86	9.05
36.8	7.41	7.57	7.73	7.90	8.07	8.24	8.42	8.60	8.78	8.97	9.15
37.0	7.50	7.66	7.83	8.00	8.17	8.34	8.52	8.70	8.88	9.07	9.26
37.2	7.59	7.76	7.92	8.09	8.26	8.44	8.62	8.80	8.99	9.18	9.37
37.4	7.68	7.85	8.02	8.19	8.36	8.54	8.72	8.91	9.10	9.29	9.49
37.6	7.78	7.94	8.11	8.29	8.46	8.64	8.83	9.02	9.21	9.40	9.60
37.8	7.87	8.04	8.21	8.39	8.57	8.75	8.93	9.12	9.32	9.51	9.71
38.0	7.97	8.14	8.31	8.49	8.67	8.85	9.04	9.23	9.43	9.62	9.83
38.2	8.06	8.23	8.41	8.59	8.77	8.96	9.15	9.34	9.54	9.74	9.94
38.4	8.16	8.33	8.51	8.69	8.88	9.06	9.26	9.45	9.65	9.85	10.06
38.6	8.26	8.43	8.61	8.79	8.98	9.17	9.36	9.56	9.76	9.97	10.18
38.8	8.35	8.53	8.71	8.90	9.09	9.28	9.47	9.67	9.88	10.08	10.29
39.0	8.45	8.63	8.82	9.00	9.19	9.39	9.59	9.79	9.99	10.20	10.41
39.2	8.55	8.74	8.92	9.11	9.30	9.50	9.70	9.90	10.11	10.32	10.54
39.4	8.66	8.84	9.03	9.22	9.41	9.61	9.81	10.02	10.23	10.44	10.66
39.6	8.76	8.94	9.13	9.33	9.52	9.72	9.93	10.13	10.35	10.56	10.78
39.8	8.86	9.05	9.24	9.43	9.63	9.84	10.04	10.25	10.46	10.68	10.90
40.0	8.96	9.15	9.35	9.54	9.75	9.95	10.16	10.37	10.59	10.81	11.03

TEMP DEG C	PH 7.90	7.91	7.92	7.93	7.94	7.95	7.96	7.97	7.98	7.99	8.00
.0	.652	.668	.683	.699	.715	.732	.748	.766	.783	.802	.820
.2	.663	.679	.695	.711	.727	.744	.761	.779	.797	.815	.834
.4	.675	.690	.706	.723	.739	.756	.774	.792	.810	.829	.848
.6	.686	.702	.718	.735	.752	.769	.787	.805	.824	.843	.862
.8	.698	.714	.730	.747	.764	.782	.800	.818	.837	.857	.877
1.0	.709	.726	.742	.760	.777	.795	.813	.832	.851	.871	.891
1.2	.721	.738	.755	.772	.790	.808	.827	.846	.866	.886	.906
1.4	.733	.750	.767	.785	.803	.822	.841	.860	.880	.900	.921
1.6	.745	.763	.780	.798	.817	.835	.855	.875	.895	.915	.936
1.8	.758	.775	.793	.811	.830	.849	.869	.889	.910	.931	.952
2.0	.770	.788	.806	.825	.844	.863	.883	.904	.925	.946	.968
2.2	.783	.801	.820	.839	.858	.878	.898	.919	.940	.962	.984
2.4	.796	.814	.833	.852	.872	.892	.913	.934	.956	.978	1.000
2.6	.809	.828	.847	.867	.887	.907	.928	.949	.971	.994	1.017
2.8	.823	.842	.861	.881	.901	.922	.943	.965	.987	1.010	1.033
3.0	.836	.855	.875	.895	.916	.937	.959	.981	1.004	1.027	1.050
3.2	.850	.870	.890	.910	.931	.953	.975	.997	1.020	1.044	1.068
3.4	.864	.884	.904	.925	.946	.968	.991	1.013	1.037	1.061	1.085
3.6	.878	.898	.919	.940	.962	.984	1.007	1.030	1.054	1.078	1.103
3.8	.892	.913	.934	.956	.978	1.000	1.023	1.047	1.071	1.096	1.121
4.0	.907	.928	.949	.971	.994	1.017	1.040	1.064	1.088	1.114	1.139
4.2	.922	.943	.965	.987	1.010	1.033	1.057	1.081	1.106	1.132	1.158
4.4	.937	.958	.981	1.003	1.026	1.050	1.074	1.099	1.124	1.150	1.177
4.6	.952	.974	.997	1.019	1.043	1.067	1.092	1.117	1.142	1.169	1.196
4.8	.968	.990	1.013	1.036	1.060	1.084	1.109	1.135	1.161	1.188	1.215
5.0	.983	1.006	1.029	1.053	1.077	1.102	1.127	1.153	1.180	1.207	1.235
5.2	.999	1.022	1.046	1.070	1.095	1.120	1.146	1.172	1.199	1.226	1.255
5.4	1.02	1.04	1.06	1.09	1.11	1.14	1.16	1.19	1.22	1.25	1.27
5.6	1.03	1.06	1.08	1.10	1.13	1.16	1.18	1.21	1.24	1.27	1.30
5.8	1.05	1.07	1.10	1.12	1.15	1.17	1.20	1.23	1.26	1.29	1.32
6.0	1.07	1.09	1.11	1.14	1.17	1.19	1.22	1.25	1.28	1.31	1.34
6.2	1.08	1.11	1.13	1.16	1.19	1.21	1.24	1.27	1.30	1.33	1.36
6.4	1.10	1.13	1.15	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38
6.6	1.12	1.14	1.17	1.20	1.22	1.25	1.28	1.31	1.34	1.37	1.40
6.8	1.14	1.16	1.19	1.22	1.24	1.27	1.30	1.33	1.36	1.39	1.42
7.0	1.15	1.18	1.21	1.23	1.26	1.29	1.32	1.35	1.38	1.42	1.45

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.90	7.91	7.92	7.93	7.94	7.95	7.96	7.97	7.98	7.99	8.00
7.0	1.15	1.18	1.21	1.23	1.26	1.29	1.32	1.35	1.38	1.42	1.45
7.2	1.17	1.20	1.23	1.25	1.28	1.31	1.34	1.37	1.41	1.44	1.47
7.4	1.19	1.22	1.25	1.27	1.30	1.33	1.36	1.40	1.43	1.46	1.49
7.6	1.21	1.24	1.27	1.29	1.32	1.35	1.39	1.42	1.45	1.48	1.52
7.8	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.47	1.51	1.54
8.0	1.25	1.28	1.31	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.57
8.2	1.27	1.30	1.33	1.36	1.39	1.42	1.45	1.49	1.52	1.55	1.59
8.4	1.29	1.32	1.35	1.38	1.41	1.44	1.48	1.51	1.54	1.58	1.62
8.6	1.31	1.34	1.37	1.40	1.43	1.47	1.50	1.53	1.57	1.60	1.64
8.8	1.33	1.36	1.39	1.42	1.45	1.49	1.52	1.56	1.59	1.63	1.67
9.0	1.35	1.38	1.41	1.44	1.48	1.51	1.55	1.58	1.62	1.65	1.69
9.2	1.37	1.40	1.43	1.47	1.50	1.54	1.57	1.61	1.64	1.68	1.72
9.4	1.39	1.42	1.46	1.49	1.52	1.56	1.59	1.63	1.67	1.71	1.75
9.6	1.41	1.45	1.48	1.51	1.55	1.58	1.62	1.66	1.69	1.73	1.77
9.8	1.44	1.47	1.50	1.54	1.57	1.61	1.64	1.68	1.72	1.76	1.80
10.0	1.46	1.49	1.53	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83
10.2	1.48	1.51	1.55	1.59	1.62	1.66	1.70	1.74	1.77	1.82	1.86
10.4	1.50	1.54	1.57	1.61	1.65	1.68	1.72	1.76	1.80	1.84	1.89
10.6	1.53	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91
10.8	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94
11.0	1.57	1.61	1.65	1.69	1.72	1.76	1.80	1.84	1.89	1.93	1.97
11.2	1.60	1.64	1.67	1.71	1.75	1.79	1.83	1.87	1.92	1.96	2.00
11.4	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.95	1.99	2.04
11.6	1.65	1.69	1.72	1.76	1.80	1.85	1.89	1.93	1.98	2.02	2.07
11.8	1.67	1.71	1.75	1.79	1.83	1.87	1.92	1.96	2.01	2.05	2.10
12.0	1.70	1.74	1.78	1.82	1.86	1.90	1.95	1.99	2.04	2.08	2.13
12.2	1.73	1.76	1.81	1.85	1.89	1.93	1.98	2.02	2.07	2.11	2.16
12.4	1.75	1.79	1.83	1.87	1.92	1.96	2.01	2.05	2.10	2.15	2.20
12.6	1.78	1.82	1.86	1.90	1.95	1.99	2.04	2.08	2.13	2.18	2.23
12.8	1.81	1.85	1.89	1.93	1.98	2.02	2.07	2.11	2.16	2.21	2.26
13.0	1.83	1.87	1.92	1.96	2.01	2.05	2.10	2.15	2.20	2.25	2.30
13.2	1.86	1.90	1.95	1.99	2.04	2.08	2.13	2.18	2.23	2.28	2.33
13.4	1.89	1.93	1.98	2.02	2.07	2.11	2.16	2.21	2.26	2.31	2.37
13.6	1.92	1.96	2.01	2.05	2.10	2.15	2.20	2.25	2.30	2.35	2.40
13.8	1.95	1.99	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.44
14.0	1.98	2.02	2.07	2.11	2.16	2.21	2.26	2.31	2.37	2.42	2.47

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.90	7.91	7.92	7.93	7.94	7.95	7.96	7.97	7.98	7.99	8.00
14.0	1.98	2.02	2.07	2.11	2.16	2.21	2.26	2.31	2.37	2.42	2.47
14.2	2.01	2.05	2.10	2.15	2.19	2.24	2.30	2.35	2.40	2.46	2.51
14.4	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55
14.6	2.07	2.11	2.16	2.21	2.26	2.31	2.36	2.42	2.47	2.53	2.59
14.8	2.10	2.14	2.19	2.24	2.29	2.35	2.40	2.45	2.51	2.57	2.63
15.0	2.13	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55	2.61	2.66
15.2	2.16	2.21	2.26	2.31	2.36	2.42	2.47	2.53	2.59	2.64	2.70
15.4	2.19	2.24	2.29	2.35	2.40	2.45	2.51	2.57	2.62	2.68	2.74
15.6	2.22	2.28	2.33	2.38	2.43	2.49	2.55	2.60	2.66	2.72	2.78
15.8	2.26	2.31	2.36	2.42	2.47	2.53	2.58	2.64	2.70	2.76	2.83
16.0	2.29	2.34	2.40	2.45	2.51	2.56	2.62	2.68	2.74	2.80	2.87
16.2	2.33	2.38	2.43	2.49	2.54	2.60	2.66	2.72	2.78	2.85	2.91
16.4	2.36	2.41	2.47	2.52	2.58	2.64	2.70	2.76	2.82	2.89	2.95
16.6	2.39	2.45	2.50	2.56	2.62	2.68	2.74	2.80	2.86	2.93	3.00
16.8	2.43	2.48	2.54	2.60	2.66	2.72	2.78	2.84	2.91	2.97	3.04
17.0	2.46	2.52	2.58	2.64	2.70	2.76	2.82	2.88	2.95	3.02	3.08
17.2	2.50	2.56	2.62	2.68	2.74	2.80	2.86	2.93	2.99	3.06	3.13
17.4	2.54	2.60	2.65	2.71	2.78	2.84	2.90	2.97	3.04	3.10	3.17
17.6	2.57	2.63	2.69	2.75	2.82	2.88	2.94	3.01	3.08	3.15	3.22
17.8	2.61	2.67	2.73	2.79	2.86	2.92	2.99	3.06	3.12	3.19	3.27
18.0	2.65	2.71	2.77	2.83	2.90	2.96	3.03	3.10	3.17	3.24	3.31
18.2	2.69	2.75	2.81	2.88	2.94	3.01	3.07	3.14	3.21	3.29	3.36
18.4	2.73	2.79	2.85	2.92	2.98	3.05	3.12	3.19	3.26	3.33	3.41
18.6	2.77	2.83	2.89	2.96	3.03	3.09	3.16	3.24	3.31	3.38	3.46
18.8	2.81	2.87	2.94	3.00	3.07	3.14	3.21	3.28	3.36	3.43	3.51
19.0	2.85	2.91	2.98	3.04	3.11	3.18	3.26	3.33	3.40	3.48	3.56
19.2	2.89	2.95	3.02	3.09	3.16	3.23	3.30	3.38	3.45	3.53	3.61
19.4	2.93	3.00	3.06	3.13	3.20	3.28	3.35	3.42	3.50	3.58	3.66
19.6	2.97	3.04	3.11	3.18	3.25	3.32	3.40	3.47	3.55	3.63	3.71
19.8	3.01	3.08	3.15	3.22	3.30	3.37	3.45	3.52	3.60	3.68	3.77
20.0	3.06	3.13	3.20	3.27	3.34	3.42	3.49	3.57	3.65	3.74	3.82
20.2	3.10	3.17	3.24	3.32	3.39	3.47	3.54	3.62	3.71	3.79	3.87
20.4	3.15	3.22	3.29	3.36	3.44	3.52	3.59	3.68	3.76	3.84	3.93
20.6	3.19	3.26	3.34	3.41	3.49	3.57	3.65	3.73	3.81	3.90	3.98
20.8	3.24	3.31	3.38	3.46	3.54	3.62	3.70	3.78	3.86	3.95	4.04
21.0	3.28	3.35	3.43	3.51	3.59	3.67	3.75	3.83	3.92	4.01	4.10

TEMP DEG C	PH 7.90	7.91	7.92	7.93	7.94	7.95	7.96	7.97	7.98	7.99	8.00
21.0	3.28	3.35	3.43	3.51	3.59	3.67	3.75	3.83	3.92	4.01	4.10
21.2	3.33	3.40	3.48	3.56	3.64	3.72	3.80	3.89	3.97	4.06	4.15
21.4	3.37	3.45	3.53	3.61	3.69	3.77	3.86	3.94	4.03	4.12	4.21
21.6	3.42	3.50	3.58	3.66	3.74	3.82	3.91	4.00	4.09	4.18	4.27
21.8	3.47	3.55	3.63	3.71	3.79	3.88	3.96	4.05	4.14	4.24	4.33
22.0	3.52	3.60	3.68	3.76	3.85	3.93	4.02	4.11	4.20	4.29	4.39
22.2	3.57	3.65	3.73	3.81	3.90	3.99	4.08	4.17	4.26	4.35	4.45
22.4	3.62	3.70	3.78	3.87	3.95	4.04	4.13	4.22	4.32	4.41	4.51
22.6	3.67	3.75	3.83	3.92	4.01	4.10	4.19	4.28	4.38	4.48	4.57
22.8	3.72	3.80	3.89	3.97	4.06	4.15	4.25	4.34	4.44	4.54	4.64
23.0	3.77	3.86	3.94	4.03	4.12	4.21	4.31	4.40	4.50	4.60	4.70
23.2	3.82	3.91	4.00	4.09	4.18	4.27	4.37	4.46	4.56	4.66	4.77
23.4	3.88	3.96	4.05	4.14	4.23	4.33	4.43	4.52	4.62	4.73	4.83
23.6	3.93	4.02	4.11	4.20	4.29	4.39	4.49	4.59	4.69	4.79	4.90
23.8	3.98	4.07	4.16	4.26	4.35	4.45	4.55	4.65	4.75	4.86	4.96
24.0	4.04	4.13	4.22	4.32	4.41	4.51	4.61	4.71	4.82	4.92	5.03
24.2	4.09	4.19	4.28	4.37	4.47	4.57	4.67	4.78	4.88	4.99	5.10
24.4	4.15	4.24	4.34	4.43	4.53	4.63	4.74	4.84	4.95	5.06	5.17
24.6	4.21	4.30	4.40	4.49	4.59	4.70	4.80	4.91	5.02	5.13	5.24
24.8	4.26	4.36	4.46	4.56	4.66	4.76	4.87	4.97	5.08	5.20	5.31
25.0	4.32	4.42	4.52	4.62	4.72	4.82	4.93	5.04	5.15	5.27	5.38
25.2	4.38	4.48	4.58	4.68	4.78	4.89	5.00	5.11	5.22	5.34	5.45
25.4	4.44	4.54	4.64	4.74	4.85	4.96	5.07	5.18	5.29	5.41	5.53
25.6	4.50	4.60	4.70	4.81	4.91	5.02	5.13	5.25	5.36	5.48	5.60
25.8	4.56	4.66	4.77	4.87	4.98	5.09	5.20	5.32	5.43	5.55	5.68
26.0	4.62	4.73	4.83	4.94	5.05	5.16	5.27	5.39	5.51	5.63	5.75
26.2	4.69	4.79	4.90	5.00	5.11	5.23	5.34	5.46	5.58	5.70	5.83
26.4	4.75	4.85	4.96	5.07	5.18	5.30	5.41	5.53	5.66	5.78	5.91
26.6	4.81	4.92	5.03	5.14	5.25	5.37	5.49	5.61	5.73	5.86	5.98
26.8	4.88	4.98	5.10	5.21	5.32	5.44	5.56	5.68	5.81	5.93	6.06
27.0	4.94	5.05	5.16	5.28	5.39	5.51	5.63	5.76	5.88	6.01	6.14
27.2	5.01	5.12	5.23	5.35	5.46	5.59	5.71	5.83	5.96	6.09	6.22
27.4	5.07	5.19	5.30	5.42	5.54	5.66	5.78	5.91	6.04	6.17	6.31
27.6	5.14	5.26	5.37	5.49	5.61	5.73	5.86	5.99	6.12	6.25	6.39
27.8	5.21	5.33	5.44	5.56	5.68	5.81	5.94	6.07	6.20	6.33	6.47
28.0	5.28	5.40	5.51	5.64	5.76	5.89	6.01	6.15	6.28	6.42	6.56

TEMP DEG C	PH 7.90	7.91	7.92	7.93	7.94	7.95	7.96	7.97	7.98	7.99	8.00
28.0	5.28	5.40	5.51	5.64	5.76	5.89	6.01	6.15	6.28	6.42	6.56
28.2	5.35	5.47	5.59	5.71	5.83	5.96	6.09	6.23	6.36	6.50	6.64
28.4	5.42	5.54	5.66	5.78	5.91	6.04	6.17	6.31	6.44	6.58	6.73
28.6	5.49	5.61	5.73	5.86	5.99	6.12	6.25	6.39	6.53	6.67	6.82
28.8	5.56	5.68	5.81	5.94	6.07	6.20	6.33	6.47	6.61	6.76	6.90
29.0	5.64	5.76	5.89	6.01	6.15	6.28	6.42	6.56	6.70	6.84	6.99
29.2	5.71	5.83	5.96	6.09	6.23	6.36	6.50	6.64	6.79	6.93	7.08
29.4	5.78	5.91	6.04	6.17	6.31	6.44	6.58	6.73	6.87	7.02	7.17
29.6	5.86	5.99	6.12	6.25	6.39	6.53	6.67	6.81	6.96	7.11	7.27
29.8	5.93	6.06	6.20	6.33	6.47	6.61	6.75	6.90	7.05	7.20	7.36
30.0	6.01	6.14	6.28	6.41	6.55	6.70	6.84	6.99	7.14	7.29	7.45
30.2	6.09	6.22	6.36	6.50	6.64	6.78	6.93	7.08	7.23	7.39	7.55
30.4	6.17	6.30	6.44	6.58	6.72	6.87	7.02	7.17	7.32	7.48	7.64
30.6	6.25	6.38	6.52	6.66	6.81	6.96	7.11	7.26	7.42	7.58	7.74
30.8	6.33	6.46	6.61	6.75	6.90	7.04	7.20	7.35	7.51	7.67	7.84
31.0	6.41	6.55	6.69	6.83	6.98	7.13	7.29	7.45	7.61	7.77	7.94
31.2	6.49	6.63	6.78	6.92	7.07	7.22	7.38	7.54	7.70	7.87	8.04
31.4	6.57	6.72	6.86	7.01	7.16	7.32	7.47	7.63	7.80	7.97	8.14
31.6	6.66	6.80	6.95	7.10	7.25	7.41	7.57	7.73	7.90	8.07	8.24
31.8	6.74	6.89	7.04	7.19	7.34	7.50	7.66	7.83	8.00	8.17	8.34
32.0	6.83	6.97	7.12	7.28	7.44	7.60	7.76	7.93	8.10	8.27	8.44
32.2	6.91	7.06	7.21	7.37	7.53	7.69	7.86	8.02	8.20	8.37	8.55
32.4	7.00	7.15	7.31	7.46	7.62	7.79	7.95	8.12	8.30	8.47	8.66
32.6	7.09	7.24	7.40	7.56	7.72	7.88	8.05	8.23	8.40	8.58	8.76
32.8	7.18	7.33	7.49	7.65	7.81	7.98	8.15	8.33	8.50	8.69	8.87
33.0	7.27	7.42	7.58	7.75	7.91	8.08	8.25	8.43	8.61	8.79	8.98
33.2	7.36	7.52	7.68	7.84	8.01	8.18	8.36	8.53	8.72	8.90	9.09
33.4	7.45	7.61	7.77	7.94	8.11	8.28	8.46	8.64	8.82	9.01	9.20
33.6	7.54	7.70	7.87	8.04	8.21	8.38	8.56	8.75	8.93	9.12	9.31
33.8	7.64	7.80	7.97	8.14	8.31	8.49	8.67	8.85	9.04	9.23	9.43
34.0	7.73	7.90	8.06	8.24	8.41	8.59	8.77	8.96	9.15	9.34	9.54
34.2	7.83	7.99	8.16	8.34	8.52	8.70	8.88	9.07	9.26	9.46	9.66
34.4	7.92	8.09	8.26	8.44	8.62	8.80	8.99	9.18	9.37	9.57	9.77
34.6	8.02	8.19	8.37	8.54	8.73	8.91	9.10	9.29	9.49	9.69	9.89
34.8	8.12	8.29	8.47	8.65	8.83	9.02	9.21	9.40	9.60	9.80	10.01
35.0	8.22	8.39	8.57	8.75	8.94	9.13	9.32	9.52	9.72	9.92	10.13

TABLE A-1 CONTINUED

TEMP DEG C	PH 7.90	7.91	7.92	7.93	7.94	7.95	7.96	7.97	7.98	7.99	8.00
35.0	8.22	8.39	8.57	8.75	8.94	9.13	9.32	9.52	9.72	9.92	10.13
35.2	8.32	8.49	8.67	8.86	9.05	9.24	9.43	9.63	9.83	10.04	10.25
35.4	8.42	8.60	8.78	8.97	9.16	9.35	9.55	9.75	9.95	10.16	10.37
35.6	8.52	8.70	8.89	9.07	9.27	9.46	9.66	9.86	10.07	10.28	10.50
35.8	8.62	8.81	8.99	9.18	9.38	9.58	9.78	9.98	10.19	10.40	10.62
36.0	8.73	8.91	9.10	9.29	9.49	9.69	9.89	10.10	10.31	10.53	10.75
36.2	8.83	9.02	9.21	9.41	9.60	9.81	10.01	10.22	10.43	10.65	10.87
36.4	8.94	9.13	9.32	9.52	9.72	9.92	10.13	10.34	10.56	10.78	11.00
36.6	9.05	9.24	9.43	9.63	9.83	10.04	10.25	10.46	10.68	10.90	11.13
36.8	9.15	9.35	9.55	9.75	9.95	10.16	10.37	10.59	10.81	11.03	11.26
37.0	9.26	9.46	9.66	9.86	10.07	10.28	10.49	10.71	10.93	11.16	11.39
37.2	9.37	9.57	9.77	9.98	10.19	10.40	10.62	10.84	11.06	11.29	11.52
37.4	9.49	9.69	9.89	10.10	10.31	10.52	10.74	10.96	11.19	11.42	11.66
37.6	9.60	9.80	10.01	10.21	10.43	10.64	10.87	11.09	11.32	11.55	11.79
37.8	9.71	9.92	10.12	10.33	10.55	10.77	10.99	11.22	11.45	11.69	11.93
38.0	9.83	10.03	10.24	10.46	10.67	10.89	11.12	11.35	11.58	11.82	12.06
38.2	9.94	10.15	10.36	10.58	10.80	11.02	11.25	11.48	11.72	11.96	12.20
38.4	10.1	10.3	10.5	10.7	10.9	11.1	11.4	11.6	11.9	12.1	12.3
38.6	10.2	10.4	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5
38.8	10.3	10.5	10.7	11.0	11.2	11.4	11.6	11.9	12.1	12.4	12.6
39.0	10.4	10.6	10.9	11.1	11.3	11.5	11.8	12.0	12.3	12.5	12.8
39.2	10.5	10.8	11.0	11.2	11.4	11.7	11.9	12.2	12.4	12.7	12.9
39.4	10.7	10.9	11.1	11.3	11.6	11.8	12.0	12.3	12.5	12.8	13.1
39.6	10.8	11.0	11.2	11.5	11.7	11.9	12.2	12.4	12.7	12.9	13.2
39.8	10.9	11.1	11.4	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.4
40.0	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.2	13.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.00	8.01	8.02	8.03	8.04	8.05	8.06	8.07	8.08	8.09	8.10
.0	.820	.839	.858	.878	.898	.919	.940	.962	.984	1.007	1.030
.2	.834	.853	.873	.893	.914	.935	.956	.978	1.001	1.024	1.047
.4	.848	.867	.887	.908	.929	.950	.972	.995	1.018	1.041	1.065
.6	.862	.882	.902	.923	.944	.966	.989	1.011	1.035	1.058	1.083
.8	.877	.897	.917	.939	.960	.982	1.005	1.028	1.052	1.076	1.101
1.0	.891	.912	.933	.954	.976	.999	1.022	1.045	1.069	1.094	1.119
1.2	.906	.927	.948	.970	.993	1.015	1.039	1.063	1.087	1.112	1.138
1.4	.921	.942	.964	.986	1.009	1.032	1.056	1.081	1.105	1.131	1.157
1.6	.936	.958	.980	1.003	1.026	1.050	1.074	1.098	1.124	1.150	1.176
1.8	.952	.974	.996	1.019	1.043	1.067	1.092	1.117	1.142	1.169	1.196
2.0	.968	.990	1.013	1.036	1.060	1.085	1.110	1.135	1.161	1.188	1.215
2.2	.984	1.007	1.030	1.053	1.078	1.103	1.128	1.154	1.180	1.208	1.235
2.4	1.00	1.02	1.05	1.07	1.10	1.12	1.15	1.17	1.20	1.23	1.26
2.6	1.02	1.04	1.06	1.09	1.11	1.14	1.17	1.19	1.22	1.25	1.28
2.8	1.03	1.06	1.08	1.11	1.13	1.16	1.18	1.21	1.24	1.27	1.30
3.0	1.05	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26	1.29	1.32
3.2	1.07	1.09	1.12	1.14	1.17	1.20	1.22	1.25	1.28	1.31	1.34
3.4	1.09	1.11	1.14	1.16	1.19	1.22	1.24	1.27	1.30	1.33	1.36
3.6	1.10	1.13	1.15	1.18	1.21	1.24	1.26	1.29	1.32	1.35	1.38
3.8	1.12	1.15	1.17	1.20	1.23	1.26	1.28	1.31	1.34	1.38	1.41
4.0	1.14	1.17	1.19	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.43
4.2	1.16	1.18	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.45
4.4	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.48
4.6	1.20	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.43	1.47	1.50
4.8	1.22	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.46	1.49	1.52
5.0	1.23	1.26	1.29	1.32	1.35	1.38	1.42	1.45	1.48	1.51	1.55
5.2	1.25	1.28	1.31	1.34	1.37	1.41	1.44	1.47	1.50	1.54	1.57
5.4	1.27	1.30	1.33	1.36	1.40	1.43	1.46	1.49	1.53	1.56	1.60
5.6	1.30	1.33	1.36	1.39	1.42	1.45	1.48	1.52	1.55	1.59	1.63
5.8	1.32	1.35	1.38	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65
6.0	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60	1.64	1.68
6.2	1.36	1.39	1.42	1.45	1.49	1.52	1.56	1.59	1.63	1.67	1.70
6.4	1.38	1.41	1.44	1.48	1.51	1.55	1.58	1.62	1.66	1.69	1.73
6.6	1.40	1.43	1.47	1.50	1.54	1.57	1.61	1.64	1.68	1.72	1.76
6.8	1.42	1.46	1.49	1.53	1.56	1.60	1.63	1.67	1.71	1.75	1.79
7.0	1.45	1.48	1.51	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.00	8.01	8.02	8.03	8.04	8.05	8.06	8.07	8.08	8.09	8.10
7.0	1.45	1.48	1.51	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82
7.2	1.47	1.50	1.54	1.57	1.61	1.65	1.68	1.72	1.76	1.80	1.84
7.4	1.49	1.53	1.56	1.60	1.64	1.67	1.71	1.75	1.79	1.83	1.87
7.6	1.52	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90
7.8	1.54	1.58	1.61	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.93
8.0	1.57	1.60	1.64	1.68	1.71	1.75	1.79	1.83	1.88	1.92	1.96
8.2	1.59	1.63	1.66	1.70	1.74	1.78	1.82	1.86	1.91	1.95	1.99
8.4	1.62	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.94	1.98	2.03
8.6	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.97	2.01	2.06
8.8	1.67	1.70	1.74	1.78	1.82	1.87	1.91	1.95	2.00	2.04	2.09
9.0	1.69	1.73	1.77	1.81	1.85	1.90	1.94	1.98	2.03	2.07	2.12
9.2	1.72	1.76	1.80	1.84	1.88	1.92	1.97	2.01	2.06	2.11	2.15
9.4	1.75	1.79	1.83	1.87	1.91	1.95	2.00	2.05	2.09	2.14	2.19
9.6	1.77	1.81	1.86	1.90	1.94	1.99	2.03	2.08	2.12	2.17	2.22
9.8	1.80	1.84	1.88	1.93	1.97	2.02	2.06	2.11	2.16	2.21	2.26
10.0	1.83	1.87	1.91	1.96	2.00	2.05	2.09	2.14	2.19	2.24	2.29
10.2	1.86	1.90	1.94	1.99	2.03	2.08	2.13	2.17	2.22	2.27	2.33
10.4	1.89	1.93	1.97	2.02	2.06	2.11	2.16	2.21	2.26	2.31	2.36
10.6	1.91	1.96	2.00	2.05	2.10	2.14	2.19	2.24	2.29	2.35	2.40
10.8	1.94	1.99	2.03	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.44
11.0	1.97	2.02	2.07	2.11	2.16	2.21	2.26	2.31	2.36	2.42	2.47
11.2	2.00	2.05	2.10	2.14	2.19	2.24	2.29	2.35	2.40	2.45	2.51
11.4	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55
11.6	2.07	2.11	2.16	2.21	2.26	2.31	2.37	2.42	2.47	2.53	2.59
11.8	2.10	2.15	2.19	2.24	2.30	2.35	2.40	2.46	2.51	2.57	2.63
12.0	2.13	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55	2.61	2.67
12.2	2.16	2.21	2.26	2.31	2.37	2.42	2.48	2.53	2.59	2.65	2.71
12.4	2.20	2.25	2.30	2.35	2.40	2.46	2.51	2.57	2.63	2.69	2.75
12.6	2.23	2.28	2.33	2.38	2.44	2.49	2.55	2.61	2.67	2.73	2.79
12.8	2.26	2.31	2.37	2.42	2.48	2.53	2.59	2.65	2.71	2.77	2.83
13.0	2.30	2.35	2.40	2.46	2.51	2.57	2.63	2.69	2.75	2.81	2.87
13.2	2.33	2.38	2.44	2.49	2.55	2.61	2.67	2.73	2.79	2.85	2.92
13.4	2.37	2.42	2.48	2.53	2.59	2.65	2.71	2.77	2.83	2.90	2.96
13.6	2.40	2.46	2.51	2.57	2.63	2.69	2.75	2.81	2.87	2.94	3.01
13.8	2.44	2.49	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98	3.05
14.0	2.47	2.53	2.59	2.65	2.71	2.77	2.83	2.89	2.96	3.03	3.10

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.00	8.01	8.02	8.03	8.04	8.05	8.06	8.07	8.08	8.09	8.10
14.0	2.47	2.53	2.59	2.65	2.71	2.77	2.83	2.89	2.96	3.03	3.10
14.2	2.51	2.57	2.63	2.69	2.75	2.81	2.87	2.94	3.00	3.07	3.14
14.4	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98	3.05	3.12	3.19
14.6	2.59	2.65	2.71	2.77	2.83	2.89	2.96	3.03	3.09	3.16	3.24
14.8	2.63	2.69	2.75	2.81	2.87	2.94	3.00	3.07	3.14	3.21	3.28
15.0	2.66	2.73	2.79	2.85	2.91	2.98	3.05	3.12	3.19	3.26	3.33
15.2	2.70	2.77	2.83	2.89	2.96	3.02	3.09	3.16	3.23	3.31	3.38
15.4	2.74	2.81	2.87	2.93	3.00	3.07	3.14	3.21	3.28	3.35	3.43
15.6	2.78	2.85	2.91	2.98	3.05	3.11	3.18	3.26	3.33	3.40	3.48
15.8	2.83	2.89	2.96	3.02	3.09	3.16	3.23	3.30	3.38	3.45	3.53
16.0	2.87	2.93	3.00	3.07	3.14	3.21	3.28	3.35	3.43	3.50	3.58
16.2	2.91	2.98	3.04	3.11	3.18	3.25	3.33	3.40	3.48	3.56	3.64
16.4	2.95	3.02	3.09	3.16	3.23	3.30	3.37	3.45	3.53	3.61	3.69
16.6	3.00	3.06	3.13	3.20	3.27	3.35	3.42	3.50	3.58	3.66	3.74
16.8	3.04	3.11	3.18	3.25	3.32	3.40	3.47	3.55	3.63	3.71	3.80
17.0	3.08	3.15	3.22	3.30	3.37	3.45	3.52	3.60	3.68	3.77	3.85
17.2	3.13	3.20	3.27	3.34	3.42	3.50	3.58	3.66	3.74	3.82	3.91
17.4	3.17	3.25	3.32	3.39	3.47	3.55	3.63	3.71	3.79	3.88	3.96
17.6	3.22	3.29	3.37	3.44	3.52	3.60	3.68	3.76	3.85	3.93	4.02
17.8	3.27	3.34	3.42	3.49	3.57	3.65	3.73	3.82	3.90	3.99	4.08
18.0	3.31	3.39	3.46	3.54	3.62	3.70	3.79	3.87	3.96	4.05	4.14
18.2	3.36	3.44	3.51	3.59	3.67	3.76	3.84	3.93	4.01	4.10	4.20
18.4	3.41	3.49	3.56	3.64	3.73	3.81	3.90	3.98	4.07	4.16	4.26
18.6	3.46	3.54	3.62	3.70	3.78	3.86	3.95	4.04	4.13	4.22	4.32
18.8	3.51	3.59	3.67	3.75	3.83	3.92	4.01	4.10	4.19	4.28	4.38
19.0	3.56	3.64	3.72	3.80	3.89	3.98	4.06	4.16	4.25	4.34	4.44
19.2	3.61	3.69	3.77	3.86	3.94	4.03	4.12	4.21	4.31	4.40	4.50
19.4	3.66	3.74	3.83	3.91	4.00	4.09	4.18	4.27	4.37	4.47	4.57
19.6	3.71	3.80	3.88	3.97	4.06	4.15	4.24	4.33	4.43	4.53	4.63
19.8	3.77	3.85	3.94	4.02	4.11	4.21	4.30	4.40	4.49	4.59	4.69
20.0	3.82	3.90	3.99	4.08	4.17	4.27	4.36	4.46	4.56	4.66	4.76
20.2	3.87	3.96	4.05	4.14	4.23	4.33	4.42	4.52	4.62	4.72	4.83
20.4	3.93	4.02	4.11	4.20	4.29	4.39	4.48	4.58	4.69	4.79	4.90
20.6	3.98	4.07	4.16	4.26	4.35	4.45	4.55	4.65	4.75	4.86	4.96
20.8	4.04	4.13	4.22	4.32	4.41	4.51	4.61	4.71	4.82	4.92	5.03
21.0	4.10	4.19	4.28	4.38	4.47	4.57	4.67	4.78	4.88	4.99	5.10

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.00	8.01	8.02	8.03	8.04	8.05	8.06	8.07	8.08	8.09	8.10
21.0	4.10	4.19	4.28	4.38	4.47	4.57	4.67	4.78	4.88	4.99	5.10
21.2	4.15	4.25	4.34	4.44	4.54	4.64	4.74	4.84	4.95	5.06	5.17
21.4	4.21	4.31	4.40	4.50	4.60	4.70	4.81	4.91	5.02	5.13	5.24
21.6	4.27	4.37	4.46	4.56	4.66	4.77	4.87	4.98	5.09	5.20	5.32
21.8	4.33	4.43	4.52	4.62	4.73	4.83	4.94	5.05	5.16	5.27	5.39
22.0	4.39	4.49	4.59	4.69	4.79	4.90	5.01	5.12	5.23	5.35	5.46
22.2	4.45	4.55	4.65	4.75	4.86	4.97	5.08	5.19	5.30	5.42	5.54
22.4	4.51	4.61	4.71	4.82	4.93	5.04	5.15	5.26	5.38	5.49	5.62
22.6	4.57	4.68	4.78	4.89	4.99	5.10	5.22	5.33	5.45	5.57	5.69
22.8	4.64	4.74	4.85	4.95	5.06	5.17	5.29	5.40	5.52	5.65	5.77
23.0	4.70	4.81	4.91	5.02	5.13	5.25	5.36	5.48	5.60	5.72	5.85
23.2	4.77	4.87	4.98	5.09	5.20	5.32	5.43	5.55	5.68	5.80	5.93
23.4	4.83	4.94	5.05	5.16	5.27	5.39	5.51	5.63	5.75	5.88	6.01
23.6	4.90	5.01	5.12	5.23	5.34	5.46	5.58	5.71	5.83	5.96	6.09
23.8	4.96	5.07	5.19	5.30	5.42	5.54	5.66	5.78	5.91	6.04	6.17
24.0	5.03	5.14	5.26	5.37	5.49	5.61	5.73	5.86	5.99	6.12	6.25
24.2	5.10	5.21	5.33	5.45	5.57	5.69	5.81	5.94	6.07	6.20	6.34
24.4	5.17	5.28	5.40	5.52	5.64	5.76	5.89	6.02	6.15	6.29	6.42
24.6	5.24	5.35	5.47	5.59	5.72	5.84	5.97	6.10	6.23	6.37	6.51
24.8	5.31	5.43	5.55	5.67	5.79	5.92	6.05	6.18	6.32	6.45	6.59
25.0	5.38	5.50	5.62	5.74	5.87	6.00	6.13	6.26	6.40	6.54	6.68
25.2	5.45	5.57	5.70	5.82	5.95	6.08	6.21	6.35	6.49	6.63	6.77
25.4	5.53	5.65	5.77	5.90	6.03	6.16	6.29	6.43	6.57	6.71	6.86
25.6	5.60	5.72	5.85	5.98	6.11	6.24	6.38	6.52	6.66	6.80	6.95
25.8	5.68	5.80	5.93	6.06	6.19	6.33	6.46	6.60	6.75	6.89	7.04
26.0	5.75	5.88	6.01	6.14	6.27	6.41	6.55	6.69	6.84	6.98	7.14
26.2	5.83	5.96	6.09	6.22	6.36	6.49	6.63	6.78	6.93	7.08	7.23
26.4	5.91	6.04	6.17	6.30	6.44	6.58	6.72	6.87	7.02	7.17	7.32
26.6	5.98	6.12	6.25	6.38	6.52	6.67	6.81	6.96	7.11	7.26	7.42
26.8	6.06	6.20	6.33	6.47	6.61	6.75	6.90	7.05	7.20	7.36	7.52
27.0	6.14	6.28	6.41	6.55	6.70	6.84	6.99	7.14	7.30	7.45	7.61
27.2	6.22	6.36	6.50	6.64	6.78	6.93	7.08	7.23	7.39	7.55	7.71
27.4	6.31	6.44	6.58	6.73	6.87	7.02	7.17	7.33	7.49	7.65	7.81
27.6	6.39	6.53	6.67	6.81	6.96	7.11	7.27	7.42	7.58	7.75	7.91
27.8	6.47	6.61	6.76	6.90	7.05	7.20	7.36	7.52	7.68	7.85	8.01
28.0	6.56	6.70	6.84	6.99	7.14	7.30	7.46	7.62	7.78	7.95	8.12

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.00	8.01	8.02	8.03	8.04	8.05	8.06	8.07	8.08	8.09	8.10
28.0	6.56	6.70	6.84	6.99	7.14	7.30	7.46	7.62	7.78	7.95	8.12
28.2	6.64	6.79	6.93	7.08	7.24	7.39	7.55	7.71	7.88	8.05	8.22
28.4	6.73	6.87	7.02	7.17	7.33	7.49	7.65	7.81	7.98	8.15	8.33
28.6	6.82	6.96	7.11	7.27	7.42	7.58	7.75	7.91	8.08	8.25	8.43
28.8	6.90	7.05	7.21	7.36	7.52	7.68	7.85	8.01	8.19	8.36	8.54
29.0	6.99	7.14	7.30	7.46	7.62	7.78	7.95	8.12	8.29	8.47	8.65
29.2	7.08	7.24	7.39	7.55	7.71	7.88	8.05	8.22	8.39	8.57	8.76
29.4	7.17	7.33	7.49	7.65	7.81	7.98	8.15	8.32	8.50	8.68	8.87
29.6	7.27	7.42	7.58	7.74	7.91	8.08	8.25	8.43	8.61	8.79	8.98
29.8	7.36	7.52	7.68	7.84	8.01	8.18	8.36	8.54	8.72	8.90	9.09
30.0	7.45	7.61	7.78	7.94	8.11	8.29	8.46	8.64	8.83	9.01	9.20
30.2	7.55	7.71	7.87	8.04	8.21	8.39	8.57	8.75	8.94	9.13	9.32
30.4	7.64	7.81	7.97	8.14	8.32	8.50	8.68	8.86	9.05	9.24	9.43
30.6	7.74	7.91	8.07	8.25	8.42	8.60	8.78	8.97	9.16	9.35	9.55
30.8	7.84	8.00	8.18	8.35	8.53	8.71	8.89	9.08	9.27	9.47	9.67
31.0	7.94	8.11	8.28	8.46	8.64	8.82	9.01	9.20	9.39	9.59	9.79
31.2	8.04	8.21	8.38	8.56	8.74	8.93	9.12	9.31	9.51	9.71	9.91
31.4	8.14	8.31	8.49	8.67	8.85	9.04	9.23	9.42	9.62	9.83	10.03
31.6	8.24	8.41	8.59	8.78	8.96	9.15	9.34	9.54	9.74	9.95	10.15
31.8	8.34	8.52	8.70	8.88	9.07	9.26	9.46	9.66	9.86	10.07	10.28
32.0	8.44	8.62	8.81	8.99	9.18	9.38	9.58	9.78	9.98	10.19	10.40
32.2	8.55	8.73	8.92	9.10	9.30	9.49	9.69	9.90	10.10	10.31	10.53
32.4	8.66	8.84	9.03	9.22	9.41	9.61	9.81	10.02	10.23	10.44	10.66
32.6	8.76	8.95	9.14	9.33	9.53	9.73	9.93	10.14	10.35	10.57	10.79
32.8	8.87	9.06	9.25	9.44	9.64	9.85	10.05	10.26	10.48	10.69	10.92
33.0	8.98	9.17	9.36	9.56	9.76	9.97	10.17	10.39	10.60	10.82	11.05
33.2	9.09	9.28	9.48	9.68	9.88	10.09	10.30	10.51	10.73	10.95	11.18
33.4	9.20	9.39	9.59	9.79	10.00	10.21	10.42	10.64	10.86	11.08	11.31
33.6	9.31	9.51	9.71	9.91	10.12	10.33	10.55	10.77	10.99	11.22	11.45
33.8	9.43	9.62	9.83	10.03	10.24	10.46	10.67	10.89	11.12	11.35	11.58
34.0	9.54	9.74	9.95	10.15	10.37	10.58	10.80	11.02	11.25	11.48	11.72
34.2	9.66	9.86	10.06	10.28	10.49	10.71	10.93	11.16	11.39	11.62	11.86
34.4	9.77	9.98	10.19	10.40	10.62	10.84	11.06	11.29	11.52	11.76	12.00
34.6	9.89	10.10	10.31	10.52	10.74	10.96	11.19	11.42	11.66	11.90	12.14
34.8	10.0	10.2	10.4	10.6	10.9	11.1	11.3	11.6	11.8	12.0	12.3
35.0	10.1	10.3	10.6	10.8	11.0	11.2	11.5	11.7	11.9	12.2	12.4

TEMP DEG C	PH 8.00	8.01	8.02	8.03	8.04	8.05	8.06	8.07	8.08	8.09	8.10
35.0	10.1	10.3	10.6	10.8	11.0	11.2	11.5	11.7	11.9	12.2	12.4
35.2	10.2	10.5	10.7	10.9	11.1	11.4	11.6	11.8	12.1	12.3	12.6
35.4	10.4	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7
35.6	10.5	10.7	10.9	11.2	11.4	11.6	11.9	12.1	12.4	12.6	12.9
35.8	10.6	10.8	11.1	11.3	11.5	11.8	12.0	12.2	12.5	12.8	13.0
36.0	10.7	11.0	11.2	11.4	11.7	11.9	12.1	12.4	12.6	12.9	13.2
36.2	10.9	11.1	11.3	11.6	11.8	12.0	12.3	12.5	12.8	13.0	13.3
36.4	11.0	11.2	11.5	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.5
36.6	11.1	11.4	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.3	13.6
36.8	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.2	13.5	13.8
37.0	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1	13.4	13.7	13.9
37.2	11.5	11.8	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8	14.1
37.4	11.7	11.9	12.1	12.4	12.6	12.9	13.2	13.4	13.7	14.0	14.2
37.6	11.8	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1	14.4
37.8	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0	14.3	14.6
38.0	12.1	12.3	12.6	12.8	13.1	13.3	13.6	13.9	14.2	14.4	14.7
38.2	12.2	12.5	12.7	13.0	13.2	13.5	13.8	14.0	14.3	14.6	14.9
38.4	12.3	12.6	12.8	13.1	13.4	13.6	13.9	14.2	14.5	14.8	15.1
38.6	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.4	14.6	14.9	15.2
38.8	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.5	14.8	15.1	15.4
39.0	12.8	13.0	13.3	13.6	13.8	14.1	14.4	14.7	15.0	15.3	15.6
39.2	12.9	13.2	13.4	13.7	14.0	14.3	14.5	14.8	15.1	15.4	15.7
39.4	13.1	13.3	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.6	15.9
39.6	13.2	13.5	13.7	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1
39.8	13.4	13.6	13.9	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.2
40.0	13.5	13.8	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.10	8.11	8.12	8.13	8.14	8.15	8.16	8.17	8.18	8.19	8.20
.0	1.03	1.05	1.08	1.10	1.13	1.15	1.18	1.21	1.24	1.26	1.29
.2	1.05	1.07	1.10	1.12	1.15	1.17	1.20	1.23	1.26	1.29	1.32
.4	1.07	1.09	1.11	1.14	1.17	1.19	1.22	1.25	1.28	1.31	1.34
.6	1.08	1.11	1.13	1.16	1.19	1.21	1.24	1.27	1.30	1.33	1.36
.8	1.10	1.13	1.15	1.18	1.21	1.23	1.26	1.29	1.32	1.35	1.38
1.0	1.12	1.15	1.17	1.20	1.23	1.25	1.28	1.31	1.34	1.37	1.41
1.2	1.14	1.16	1.19	1.22	1.25	1.28	1.30	1.33	1.37	1.40	1.43
1.4	1.16	1.18	1.21	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.45
1.6	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.48
1.8	1.20	1.22	1.25	1.28	1.31	1.34	1.37	1.40	1.43	1.47	1.50
2.0	1.22	1.24	1.27	1.30	1.33	1.36	1.39	1.42	1.46	1.49	1.53
2.2	1.24	1.26	1.29	1.32	1.35	1.38	1.42	1.45	1.48	1.52	1.55
2.4	1.26	1.28	1.31	1.34	1.38	1.41	1.44	1.47	1.51	1.54	1.58
2.6	1.28	1.31	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60
2.8	1.30	1.33	1.36	1.39	1.42	1.45	1.49	1.52	1.56	1.59	1.63
3.0	1.32	1.35	1.38	1.41	1.44	1.48	1.51	1.55	1.58	1.62	1.65
3.2	1.34	1.37	1.40	1.43	1.47	1.50	1.54	1.57	1.61	1.64	1.68
3.4	1.36	1.39	1.43	1.46	1.49	1.53	1.56	1.60	1.63	1.67	1.71
3.6	1.38	1.42	1.45	1.48	1.52	1.55	1.59	1.62	1.66	1.70	1.74
3.8	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65	1.69	1.73	1.76
4.0	1.43	1.46	1.50	1.53	1.57	1.60	1.64	1.68	1.71	1.75	1.79
4.2	1.45	1.49	1.52	1.56	1.59	1.63	1.66	1.70	1.74	1.78	1.82
4.4	1.48	1.51	1.55	1.58	1.62	1.65	1.69	1.73	1.77	1.81	1.85
4.6	1.50	1.54	1.57	1.61	1.64	1.68	1.72	1.76	1.80	1.84	1.88
4.8	1.52	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91
5.0	1.55	1.58	1.62	1.66	1.70	1.74	1.77	1.82	1.86	1.90	1.94
5.2	1.57	1.61	1.65	1.69	1.72	1.76	1.80	1.84	1.89	1.93	1.97
5.4	1.60	1.64	1.67	1.71	1.75	1.79	1.83	1.87	1.92	1.96	2.01
5.6	1.63	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.95	1.99	2.04
5.8	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.93	1.98	2.02	2.07
6.0	1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.97	2.01	2.06	2.10
6.2	1.70	1.74	1.78	1.82	1.87	1.91	1.95	2.00	2.04	2.09	2.14
6.4	1.73	1.77	1.81	1.85	1.90	1.94	1.98	2.03	2.07	2.12	2.17
6.6	1.76	1.80	1.84	1.88	1.93	1.97	2.01	2.06	2.11	2.16	2.20
6.8	1.79	1.83	1.87	1.91	1.96	2.00	2.05	2.09	2.14	2.19	2.24
7.0	1.82	1.86	1.90	1.94	1.99	2.03	2.08	2.13	2.17	2.22	2.28

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.10	8.11	8.12	8.13	8.14	8.15	8.16	8.17	8.18	8.19	8.20
7.0	1.82	1.86	1.90	1.94	1.99	2.03	2.08	2.13	2.17	2.22	2.28
7.2	1.84	1.89	1.93	1.97	2.02	2.06	2.11	2.16	2.21	2.26	2.31
7.4	1.87	1.92	1.96	2.00	2.05	2.10	2.15	2.19	2.24	2.30	2.35
7.6	1.90	1.95	1.99	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.38
7.8	1.93	1.98	2.02	2.07	2.12	2.16	2.21	2.26	2.31	2.37	2.42
8.0	1.96	2.01	2.05	2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.46
8.2	1.99	2.04	2.09	2.13	2.18	2.23	2.28	2.33	2.39	2.44	2.50
8.4	2.03	2.07	2.12	2.17	2.22	2.27	2.32	2.37	2.43	2.48	2.54
8.6	2.06	2.10	2.15	2.20	2.25	2.30	2.35	2.41	2.46	2.52	2.58
8.8	2.09	2.14	2.19	2.24	2.29	2.34	2.39	2.45	2.50	2.56	2.62
9.0	2.12	2.17	2.22	2.27	2.32	2.37	2.43	2.48	2.54	2.60	2.66
9.2	2.15	2.20	2.25	2.31	2.36	2.41	2.47	2.52	2.58	2.64	2.70
9.4	2.19	2.24	2.29	2.34	2.39	2.45	2.50	2.56	2.62	2.68	2.74
9.6	2.22	2.27	2.32	2.38	2.43	2.49	2.54	2.60	2.66	2.72	2.78
9.8	2.26	2.31	2.36	2.41	2.47	2.52	2.58	2.64	2.70	2.76	2.82
10.0	2.29	2.34	2.40	2.45	2.51	2.56	2.62	2.68	2.74	2.80	2.87
10.2	2.33	2.38	2.43	2.49	2.55	2.60	2.66	2.72	2.78	2.85	2.91
10.4	2.36	2.42	2.47	2.53	2.58	2.64	2.70	2.76	2.83	2.89	2.96
10.6	2.40	2.45	2.51	2.57	2.62	2.68	2.74	2.81	2.87	2.93	3.00
10.8	2.44	2.49	2.55	2.61	2.66	2.72	2.79	2.85	2.91	2.98	3.05
11.0	2.47	2.53	2.59	2.65	2.71	2.77	2.83	2.89	2.96	3.03	3.09
11.2	2.51	2.57	2.63	2.69	2.75	2.81	2.87	2.94	3.00	3.07	3.14
11.4	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98	3.05	3.12	3.19
11.6	2.59	2.65	2.71	2.77	2.83	2.89	2.96	3.03	3.09	3.16	3.24
11.8	2.63	2.69	2.75	2.81	2.87	2.94	3.00	3.07	3.14	3.21	3.28
12.0	2.67	2.73	2.79	2.85	2.92	2.98	3.05	3.12	3.19	3.26	3.33
12.2	2.71	2.77	2.83	2.90	2.96	3.03	3.10	3.17	3.24	3.31	3.38
12.4	2.75	2.81	2.87	2.94	3.01	3.07	3.14	3.21	3.29	3.36	3.44
12.6	2.79	2.85	2.92	2.98	3.05	3.12	3.19	3.26	3.34	3.41	3.49
12.8	2.83	2.90	2.96	3.03	3.10	3.17	3.24	3.31	3.39	3.46	3.54
13.0	2.87	2.94	3.01	3.07	3.14	3.21	3.29	3.36	3.44	3.51	3.59
13.2	2.92	2.98	3.05	3.12	3.19	3.26	3.34	3.41	3.49	3.57	3.65
13.4	2.96	3.03	3.10	3.17	3.24	3.31	3.38	3.46	3.54	3.62	3.70
13.6	3.01	3.07	3.14	3.21	3.29	3.36	3.44	3.51	3.59	3.67	3.75
13.8	3.05	3.12	3.19	3.26	3.33	3.41	3.49	3.56	3.64	3.73	3.81
14.0	3.10	3.17	3.24	3.31	3.38	3.46	3.54	3.62	3.70	3.78	3.87

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.10	8.11	8.12	8.13	8.14	8.15	8.16	8.17	8.18	8.19	8.20
14.0	3.10	3.17	3.24	3.31	3.38	3.46	3.54	3.62	3.70	3.78	3.87
14.2	3.14	3.21	3.28	3.36	3.43	3.51	3.59	3.67	3.75	3.84	3.92
14.4	3.19	3.26	3.33	3.41	3.49	3.56	3.64	3.73	3.81	3.89	3.98
14.6	3.24	3.31	3.38	3.46	3.54	3.62	3.70	3.78	3.86	3.95	4.04
14.8	3.28	3.36	3.43	3.51	3.59	3.67	3.75	3.84	3.92	4.01	4.10
15.0	3.33	3.41	3.48	3.56	3.64	3.72	3.81	3.89	3.98	4.07	4.16
15.2	3.38	3.46	3.53	3.61	3.69	3.78	3.86	3.95	4.04	4.13	4.22
15.4	3.43	3.51	3.59	3.67	3.75	3.83	3.92	4.01	4.10	4.19	4.28
15.6	3.48	3.56	3.64	3.72	3.80	3.89	3.98	4.06	4.16	4.25	4.34
15.8	3.53	3.61	3.69	3.77	3.86	3.95	4.03	4.12	4.22	4.31	4.41
16.0	3.58	3.66	3.75	3.83	3.92	4.00	4.09	4.18	4.28	4.37	4.47
16.2	3.64	3.72	3.80	3.89	3.97	4.06	4.15	4.24	4.34	4.44	4.53
16.4	3.69	3.77	3.86	3.94	4.03	4.12	4.21	4.31	4.40	4.50	4.60
16.6	3.74	3.83	3.91	4.00	4.09	4.18	4.27	4.37	4.46	4.56	4.67
16.8	3.80	3.88	3.97	4.06	4.15	4.24	4.33	4.43	4.53	4.63	4.73
17.0	3.85	3.94	4.03	4.12	4.21	4.30	4.40	4.49	4.59	4.70	4.80
17.2	3.91	3.99	4.08	4.17	4.27	4.36	4.46	4.56	4.66	4.76	4.87
17.4	3.96	4.05	4.14	4.23	4.33	4.43	4.52	4.62	4.73	4.83	4.94
17.6	4.02	4.11	4.20	4.30	4.39	4.49	4.59	4.69	4.79	4.90	5.01
17.8	4.08	4.17	4.26	4.36	4.45	4.55	4.65	4.76	4.86	4.97	5.08
18.0	4.14	4.23	4.32	4.42	4.52	4.62	4.72	4.82	4.93	5.04	5.15
18.2	4.20	4.29	4.38	4.48	4.58	4.68	4.79	4.89	5.00	5.11	5.22
18.4	4.26	4.35	4.45	4.55	4.65	4.75	4.85	4.96	5.07	5.18	5.30
18.6	4.32	4.41	4.51	4.61	4.71	4.82	4.92	5.03	5.14	5.26	5.37
18.8	4.38	4.47	4.57	4.68	4.78	4.88	4.99	5.10	5.22	5.33	5.45
19.0	4.44	4.54	4.64	4.74	4.85	4.95	5.06	5.18	5.29	5.41	5.52
19.2	4.50	4.60	4.70	4.81	4.91	5.02	5.13	5.25	5.36	5.48	5.60
19.4	4.57	4.67	4.77	4.88	4.98	5.09	5.21	5.32	5.44	5.56	5.68
19.6	4.63	4.73	4.84	4.94	5.05	5.17	5.28	5.40	5.51	5.64	5.76
19.8	4.69	4.80	4.91	5.01	5.12	5.24	5.35	5.47	5.59	5.71	5.84
20.0	4.76	4.87	4.97	5.08	5.20	5.31	5.43	5.55	5.67	5.79	5.92
20.2	4.83	4.93	5.04	5.16	5.27	5.38	5.50	5.62	5.75	5.87	6.00
20.4	4.90	5.00	5.11	5.23	5.34	5.46	5.58	5.70	5.83	5.96	6.09
20.6	4.96	5.07	5.19	5.30	5.42	5.54	5.66	5.78	5.91	6.04	6.17
20.8	5.03	5.14	5.26	5.37	5.49	5.61	5.74	5.86	5.99	6.12	6.25
21.0	5.10	5.21	5.33	5.45	5.57	5.69	5.81	5.94	6.07	6.20	6.34

TEMP DEG C	PH 8.10	8.11	8.12	8.13	8.14	8.15	8.16	8.17	8.18	8.19	8.20
21.0	5.10	5.21	5.33	5.45	5.57	5.69	5.81	5.94	6.07	6.20	6.34
21.2	5.17	5.29	5.40	5.52	5.64	5.77	5.89	6.02	6.15	6.29	6.43
21.4	5.24	5.36	5.48	5.60	5.72	5.85	5.98	6.11	6.24	6.38	6.51
21.6	5.32	5.43	5.55	5.68	5.80	5.93	6.06	6.19	6.32	6.46	6.60
21.8	5.39	5.51	5.63	5.75	5.88	6.01	6.14	6.27	6.41	6.55	6.69
22.0	5.46	5.58	5.71	5.83	5.96	6.09	6.22	6.36	6.50	6.64	6.78
22.2	5.54	5.66	5.79	5.91	6.04	6.17	6.31	6.45	6.59	6.73	6.87
22.4	5.62	5.74	5.86	5.99	6.12	6.26	6.39	6.53	6.67	6.82	6.97
22.6	5.69	5.82	5.94	6.07	6.21	6.34	6.48	6.62	6.77	6.91	7.06
22.8	5.77	5.90	6.02	6.16	6.29	6.43	6.57	6.71	6.86	7.00	7.16
23.0	5.85	5.98	6.11	6.24	6.38	6.51	6.66	6.80	6.95	7.10	7.25
23.2	5.93	6.06	6.19	6.32	6.46	6.60	6.75	6.89	7.04	7.19	7.35
23.4	6.01	6.14	6.27	6.41	6.55	6.69	6.84	6.98	7.14	7.29	7.45
23.6	6.09	6.22	6.36	6.50	6.64	6.78	6.93	7.08	7.23	7.39	7.55
23.8	6.17	6.31	6.44	6.58	6.73	6.87	7.02	7.17	7.33	7.48	7.65
24.0	6.25	6.39	6.53	6.67	6.82	6.96	7.11	7.27	7.42	7.58	7.75
24.2	6.34	6.48	6.62	6.76	6.91	7.06	7.21	7.36	7.52	7.68	7.85
24.4	6.42	6.56	6.70	6.85	7.00	7.15	7.30	7.46	7.62	7.79	7.95
24.6	6.51	6.65	6.79	6.94	7.09	7.24	7.40	7.56	7.72	7.89	8.06
24.8	6.59	6.74	6.88	7.03	7.19	7.34	7.50	7.66	7.82	7.99	8.16
25.0	6.68	6.83	6.98	7.13	7.28	7.44	7.60	7.76	7.93	8.10	8.27
25.2	6.77	6.92	7.07	7.22	7.38	7.53	7.70	7.86	8.03	8.20	8.38
25.4	6.86	7.01	7.16	7.32	7.47	7.63	7.80	7.96	8.14	8.31	8.49
25.6	6.95	7.10	7.25	7.41	7.57	7.73	7.90	8.07	8.24	8.42	8.60
25.8	7.04	7.19	7.35	7.51	7.67	7.83	8.00	8.17	8.35	8.53	8.71
26.0	7.14	7.29	7.45	7.61	7.77	7.94	8.11	8.28	8.46	8.64	8.82
26.2	7.23	7.38	7.54	7.71	7.87	8.04	8.21	8.39	8.57	8.75	8.93
26.4	7.32	7.48	7.64	7.81	7.97	8.14	8.32	8.50	8.68	8.86	9.05
26.6	7.42	7.58	7.74	7.91	8.08	8.25	8.43	8.60	8.79	8.97	9.16
26.8	7.52	7.68	7.84	8.01	8.18	8.36	8.53	8.72	8.90	9.09	9.28
27.0	7.61	7.78	7.94	8.11	8.29	8.46	8.64	8.83	9.01	9.20	9.40
27.2	7.71	7.88	8.05	8.22	8.39	8.57	8.75	8.94	9.13	9.32	9.52
27.4	7.81	7.98	8.15	8.32	8.50	8.68	8.87	9.05	9.24	9.44	9.64
27.6	7.91	8.08	8.25	8.43	8.61	8.79	8.98	9.17	9.36	9.56	9.76
27.8	8.01	8.18	8.36	8.54	8.72	8.90	9.09	9.28	9.48	9.68	9.88
28.0	8.12	8.29	8.47	8.65	8.83	9.02	9.21	9.40	9.60	9.80	10.01

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.10	8.11	8.12	8.13	8.14	8.15	8.16	8.17	8.18	8.19	8.20
28.0	8.12	8.29	8.47	8.65	8.83	9.02	9.21	9.40	9.60	9.80	10.01
28.2	8.22	8.40	8.57	8.76	8.94	9.13	9.32	9.52	9.72	9.93	10.13
28.4	8.33	8.50	8.68	8.87	9.06	9.25	9.44	9.64	9.84	10.05	10.26
28.6	8.43	8.61	8.79	8.98	9.17	9.36	9.56	9.76	9.97	10.17	10.39
28.8	8.54	8.72	8.90	9.09	9.29	9.48	9.68	9.88	10.09	10.30	10.52
29.0	8.65	8.83	9.02	9.21	9.40	9.60	9.80	10.01	10.22	10.43	10.65
29.2	8.76	8.94	9.13	9.32	9.52	9.72	9.92	10.13	10.34	10.56	10.78
29.4	8.87	9.05	9.25	9.44	9.64	9.84	10.05	10.26	10.47	10.69	10.91
29.6	8.98	9.17	9.36	9.56	9.76	9.96	10.17	10.38	10.60	10.82	11.05
29.8	9.09	9.28	9.48	9.68	9.88	10.09	10.30	10.51	10.73	10.95	11.18
30.0	9.20	9.40	9.60	9.80	10.00	10.21	10.43	10.64	10.86	11.09	11.32
30.2	9.32	9.51	9.71	9.92	10.13	10.34	10.55	10.77	11.00	11.22	11.45
30.4	9.43	9.63	9.84	10.04	10.25	10.47	10.68	10.90	11.13	11.36	11.59
30.6	9.55	9.75	9.96	10.17	10.38	10.59	10.81	11.04	11.27	11.50	11.73
30.8	9.67	9.87	10.08	10.29	10.50	10.72	10.95	11.17	11.40	11.64	11.88
31.0	9.79	9.99	10.20	10.42	10.63	10.85	11.08	11.31	11.54	11.78	12.02
31.2	9.91	10.12	10.33	10.54	10.76	10.99	11.21	11.44	11.68	11.92	12.16
31.4	10.0	10.2	10.5	10.7	10.9	11.1	11.3	11.6	11.8	12.1	12.3
31.6	10.2	10.4	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5
31.8	10.3	10.5	10.7	10.9	11.2	11.4	11.6	11.9	12.1	12.4	12.6
32.0	10.4	10.6	10.8	11.1	11.3	11.5	11.8	12.0	12.2	12.5	12.8
32.2	10.5	10.7	11.0	11.2	11.4	11.7	11.9	12.1	12.4	12.6	12.9
32.4	10.7	10.9	11.1	11.3	11.6	11.8	12.0	12.3	12.5	12.8	13.1
32.6	10.8	11.0	11.2	11.5	11.7	11.9	12.2	12.4	12.7	12.9	13.2
32.8	10.9	11.1	11.4	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.4
33.0	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.3	13.5
33.2	11.2	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1	13.4	13.7
33.4	11.3	11.5	11.8	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8
33.6	11.4	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0
33.8	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.3	13.6	13.9	14.2
34.0	11.7	12.0	12.2	12.5	12.7	13.0	13.2	13.5	13.8	14.0	14.3
34.2	11.9	12.1	12.3	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.5
34.4	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.4	14.7
34.6	12.1	12.4	12.6	12.9	13.2	13.4	13.7	14.0	14.2	14.5	14.8
34.8	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1	14.4	14.7	15.0
35.0	12.4	12.7	12.9	13.2	13.5	13.7	14.0	14.3	14.6	14.9	15.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.10	8.11	8.12	8.13	8.14	8.15	8.16	8.17	8.18	8.19	8.20
35.0	12.4	12.7	12.9	13.2	13.5	13.7	14.0	14.3	14.6	14.9	15.2
35.2	12.6	12.8	13.1	13.3	13.6	13.9	14.2	14.5	14.7	15.0	15.3
35.4	12.7	13.0	13.2	13.5	13.8	14.0	14.3	14.6	14.9	15.2	15.5
35.6	12.9	13.1	13.4	13.7	13.9	14.2	14.5	14.8	15.1	15.4	15.7
35.8	13.0	13.3	13.5	13.8	14.1	14.4	14.7	14.9	15.2	15.5	15.8
36.0	13.2	13.4	13.7	14.0	14.2	14.5	14.8	15.1	15.4	15.7	16.0
36.2	13.3	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2
36.4	13.5	13.7	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4
36.6	13.6	13.9	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.2	16.6
36.8	13.8	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7
37.0	13.9	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9
37.2	14.1	14.4	14.7	14.9	15.2	15.5	15.8	16.2	16.5	16.8	17.1
37.4	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	17.0	17.3
37.6	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.2	17.5
37.8	14.6	14.9	15.1	15.4	15.7	16.1	16.4	16.7	17.0	17.3	17.7
38.0	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.9	17.2	17.5	17.9
38.2	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.1	17.4	17.7	18.1
38.4	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.2	17.6	17.9	18.2
38.6	15.2	15.5	15.8	16.1	16.4	16.8	17.1	17.4	17.8	18.1	18.4
38.8	15.4	15.7	16.0	16.3	16.6	16.9	17.3	17.6	17.9	18.3	18.6
39.0	15.6	15.9	16.2	16.5	16.8	17.1	17.5	17.8	18.1	18.5	18.8
39.2	15.7	16.0	16.3	16.7	17.0	17.3	17.6	18.0	18.3	18.7	19.0
39.4	15.9	16.2	16.5	16.8	17.2	17.5	17.8	18.2	18.5	18.9	19.2
39.6	16.1	16.4	16.7	17.0	17.4	17.7	18.0	18.4	18.7	19.1	19.4
39.8	16.2	16.6	16.9	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6
40.0	16.4	16.7	17.1	17.4	17.7	18.1	18.4	18.8	19.1	19.5	19.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.20	8.21	8.22	8.23	8.24	8.25	8.26	8.27	8.28	8.29	8.30
.0	1.29	1.32	1.35	1.38	1.42	1.45	1.48	1.52	1.55	1.59	1.62
.2	1.32	1.35	1.38	1.41	1.44	1.47	1.51	1.54	1.58	1.61	1.65
.4	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.57	1.60	1.64	1.68
.6	1.36	1.39	1.42	1.46	1.49	1.52	1.56	1.59	1.63	1.67	1.71
.8	1.38	1.41	1.45	1.48	1.51	1.55	1.58	1.62	1.66	1.69	1.73
1.0	1.41	1.44	1.47	1.50	1.54	1.57	1.61	1.65	1.68	1.72	1.76
1.2	1.43	1.46	1.49	1.53	1.56	1.60	1.64	1.67	1.71	1.75	1.79
1.4	1.45	1.49	1.52	1.55	1.59	1.63	1.66	1.70	1.74	1.78	1.82
1.6	1.48	1.51	1.54	1.58	1.62	1.65	1.69	1.73	1.77	1.81	1.85
1.8	1.50	1.53	1.57	1.61	1.64	1.68	1.72	1.76	1.80	1.84	1.88
2.0	1.53	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91
2.2	1.55	1.59	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94
2.4	1.58	1.61	1.65	1.69	1.73	1.76	1.81	1.85	1.89	1.93	1.98
2.6	1.60	1.64	1.68	1.71	1.75	1.79	1.83	1.88	1.92	1.96	2.01
2.8	1.63	1.67	1.70	1.74	1.78	1.82	1.86	1.91	1.95	2.00	2.04
3.0	1.65	1.69	1.73	1.77	1.81	1.85	1.90	1.94	1.98	2.03	2.07
3.2	1.68	1.72	1.76	1.80	1.84	1.88	1.93	1.97	2.01	2.06	2.11
3.4	1.71	1.75	1.79	1.83	1.87	1.91	1.96	2.00	2.05	2.09	2.14
3.6	1.74	1.78	1.82	1.86	1.90	1.94	1.99	2.03	2.08	2.13	2.18
3.8	1.76	1.81	1.85	1.89	1.93	1.98	2.02	2.07	2.11	2.16	2.21
4.0	1.79	1.83	1.88	1.92	1.96	2.01	2.05	2.10	2.15	2.20	2.25
4.2	1.82	1.86	1.91	1.95	1.99	2.04	2.09	2.13	2.18	2.23	2.28
4.4	1.85	1.89	1.94	1.98	2.03	2.07	2.12	2.17	2.22	2.27	2.32
4.6	1.88	1.92	1.97	2.01	2.06	2.11	2.15	2.20	2.25	2.31	2.36
4.8	1.91	1.96	2.00	2.05	2.09	2.14	2.19	2.24	2.29	2.34	2.40
5.0	1.94	1.99	2.03	2.08	2.13	2.17	2.22	2.27	2.33	2.38	2.43
5.2	1.97	2.02	2.07	2.11	2.16	2.21	2.26	2.31	2.36	2.42	2.47
5.4	2.01	2.05	2.10	2.15	2.19	2.24	2.30	2.35	2.40	2.46	2.51
5.6	2.04	2.08	2.13	2.18	2.23	2.28	2.33	2.39	2.44	2.50	2.55
5.8	2.07	2.12	2.17	2.21	2.27	2.32	2.37	2.42	2.48	2.53	2.59
6.0	2.10	2.15	2.20	2.25	2.30	2.35	2.41	2.46	2.52	2.57	2.63
6.2	2.14	2.19	2.24	2.29	2.34	2.39	2.45	2.50	2.56	2.62	2.67
6.4	2.17	2.22	2.27	2.32	2.37	2.43	2.48	2.54	2.60	2.66	2.72
6.6	2.20	2.26	2.31	2.36	2.41	2.47	2.52	2.58	2.64	2.70	2.76
6.8	2.24	2.29	2.34	2.40	2.45	2.51	2.56	2.62	2.68	2.74	2.80
7.0	2.28	2.33	2.38	2.43	2.49	2.55	2.60	2.66	2.72	2.78	2.85

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.20	8.21	8.22	8.23	8.24	8.25	8.26	8.27	8.28	8.29	8.30
7.0	2.28	2.33	2.38	2.43	2.49	2.55	2.60	2.66	2.72	2.78	2.85
7.2	2.31	2.36	2.42	2.47	2.53	2.59	2.64	2.70	2.77	2.83	2.89
7.4	2.35	2.40	2.46	2.51	2.57	2.63	2.69	2.75	2.81	2.87	2.94
7.6	2.38	2.44	2.49	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98
7.8	2.42	2.48	2.53	2.59	2.65	2.71	2.77	2.83	2.90	2.96	3.03
8.0	2.46	2.52	2.57	2.63	2.69	2.75	2.81	2.88	2.94	3.01	3.08
8.2	2.50	2.55	2.61	2.67	2.73	2.79	2.86	2.92	2.99	3.06	3.12
8.4	2.54	2.59	2.65	2.71	2.77	2.84	2.90	2.97	3.03	3.10	3.17
8.6	2.58	2.63	2.69	2.76	2.82	2.88	2.95	3.01	3.08	3.15	3.22
8.8	2.62	2.68	2.74	2.80	2.86	2.93	2.99	3.06	3.13	3.20	3.27
9.0	2.66	2.72	2.78	2.84	2.91	2.97	3.04	3.11	3.18	3.25	3.32
9.2	2.70	2.76	2.82	2.89	2.95	3.02	3.09	3.15	3.23	3.30	3.37
9.4	2.74	2.80	2.86	2.93	3.00	3.06	3.13	3.20	3.28	3.35	3.42
9.6	2.78	2.84	2.91	2.97	3.04	3.11	3.18	3.25	3.33	3.40	3.48
9.8	2.82	2.89	2.95	3.02	3.09	3.16	3.23	3.30	3.38	3.45	3.53
10.0	2.87	2.93	3.00	3.07	3.14	3.21	3.28	3.35	3.43	3.50	3.58
10.2	2.91	2.98	3.04	3.11	3.18	3.26	3.33	3.40	3.48	3.56	3.64
10.4	2.96	3.02	3.09	3.16	3.23	3.30	3.38	3.46	3.53	3.61	3.69
10.6	3.00	3.07	3.14	3.21	3.28	3.36	3.43	3.51	3.59	3.67	3.75
10.8	3.05	3.12	3.19	3.26	3.33	3.41	3.48	3.56	3.64	3.72	3.81
11.0	3.09	3.16	3.23	3.31	3.38	3.46	3.54	3.61	3.70	3.78	3.86
11.2	3.14	3.21	3.28	3.36	3.43	3.51	3.59	3.67	3.75	3.84	3.92
11.4	3.19	3.26	3.33	3.41	3.48	3.56	3.64	3.72	3.81	3.89	3.98
11.6	3.24	3.31	3.38	3.46	3.54	3.62	3.70	3.78	3.87	3.95	4.04
11.8	3.28	3.36	3.43	3.51	3.59	3.67	3.75	3.84	3.92	4.01	4.10
12.0	3.33	3.41	3.49	3.56	3.64	3.73	3.81	3.89	3.98	4.07	4.16
12.2	3.38	3.46	3.54	3.62	3.70	3.78	3.87	3.95	4.04	4.13	4.22
12.4	3.44	3.51	3.59	3.67	3.75	3.84	3.92	4.01	4.10	4.19	4.29
12.6	3.49	3.57	3.65	3.73	3.81	3.90	3.98	4.07	4.16	4.26	4.35
12.8	3.54	3.62	3.70	3.78	3.87	3.95	4.04	4.13	4.22	4.32	4.41
13.0	3.59	3.67	3.75	3.84	3.92	4.01	4.10	4.19	4.29	4.38	4.48
13.2	3.65	3.73	3.81	3.90	3.98	4.07	4.16	4.26	4.35	4.45	4.55
13.4	3.70	3.78	3.87	3.95	4.04	4.13	4.22	4.32	4.41	4.51	4.61
13.6	3.75	3.84	3.92	4.01	4.10	4.19	4.29	4.38	4.48	4.58	4.68
13.8	3.81	3.90	3.98	4.07	4.16	4.25	4.35	4.45	4.55	4.65	4.75
14.0	3.87	3.95	4.04	4.13	4.22	4.32	4.41	4.51	4.61	4.71	4.82

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.20	8.21	8.22	8.23	8.24	8.25	8.26	8.27	8.28	8.29	8.30
14.0	3.87	3.95	4.04	4.13	4.22	4.32	4.41	4.51	4.61	4.71	4.82
14.2	3.92	4.01	4.10	4.19	4.29	4.38	4.48	4.58	4.68	4.78	4.89
14.4	3.98	4.07	4.16	4.25	4.35	4.44	4.54	4.64	4.75	4.85	4.96
14.6	4.04	4.13	4.22	4.32	4.41	4.51	4.61	4.71	4.82	4.92	5.03
14.8	4.10	4.19	4.28	4.38	4.48	4.58	4.68	4.78	4.89	5.00	5.11
15.0	4.16	4.25	4.35	4.44	4.54	4.64	4.75	4.85	4.96	5.07	5.18
15.2	4.22	4.31	4.41	4.51	4.61	4.71	4.81	4.92	5.03	5.14	5.25
15.4	4.28	4.38	4.47	4.57	4.67	4.78	4.88	4.99	5.10	5.21	5.33
15.6	4.34	4.44	4.54	4.64	4.74	4.85	4.95	5.06	5.18	5.29	5.41
15.8	4.41	4.50	4.60	4.71	4.81	4.92	5.03	5.14	5.25	5.37	5.48
16.0	4.47	4.57	4.67	4.77	4.88	4.99	5.10	5.21	5.33	5.44	5.56
16.2	4.53	4.63	4.74	4.84	4.95	5.06	5.17	5.29	5.40	5.52	5.64
16.4	4.60	4.70	4.81	4.91	5.02	5.13	5.25	5.36	5.48	5.60	5.72
16.6	4.67	4.77	4.87	4.98	5.09	5.21	5.32	5.44	5.56	5.68	5.80
16.8	4.73	4.84	4.94	5.05	5.17	5.28	5.40	5.51	5.64	5.76	5.89
17.0	4.80	4.91	5.02	5.13	5.24	5.35	5.47	5.59	5.72	5.84	5.97
17.2	4.87	4.98	5.09	5.20	5.31	5.43	5.55	5.67	5.80	5.92	6.05
17.4	4.94	5.05	5.16	5.27	5.39	5.51	5.63	5.75	5.88	6.01	6.14
17.6	5.01	5.12	5.23	5.35	5.47	5.59	5.71	5.83	5.96	6.09	6.22
17.8	5.08	5.19	5.31	5.42	5.54	5.66	5.79	5.92	6.05	6.18	6.31
18.0	5.15	5.27	5.38	5.50	5.62	5.74	5.87	6.00	6.13	6.26	6.40
18.2	5.22	5.34	5.46	5.58	5.70	5.83	5.95	6.08	6.22	6.35	6.49
18.4	5.30	5.42	5.53	5.66	5.78	5.91	6.04	6.17	6.30	6.44	6.58
18.6	5.37	5.49	5.61	5.74	5.86	5.99	6.12	6.25	6.39	6.53	6.67
18.8	5.45	5.57	5.69	5.82	5.94	6.07	6.21	6.34	6.48	6.62	6.76
19.0	5.52	5.65	5.77	5.90	6.03	6.16	6.29	6.43	6.57	6.71	6.86
19.2	5.60	5.73	5.85	5.98	6.11	6.24	6.38	6.52	6.66	6.80	6.95
19.4	5.68	5.81	5.93	6.06	6.19	6.33	6.47	6.61	6.75	6.90	7.05
19.6	5.76	5.89	6.01	6.15	6.28	6.42	6.56	6.70	6.84	6.99	7.14
19.8	5.84	5.97	6.10	6.23	6.37	6.51	6.65	6.79	6.94	7.09	7.24
20.0	5.92	6.05	6.18	6.32	6.45	6.60	6.74	6.88	7.03	7.19	7.34
20.2	6.00	6.13	6.27	6.40	6.54	6.69	6.83	6.98	7.13	7.28	7.44
20.4	6.09	6.22	6.35	6.49	6.63	6.78	6.92	7.07	7.23	7.38	7.54
20.6	6.17	6.30	6.44	6.58	6.72	6.87	7.02	7.17	7.33	7.48	7.64
20.8	6.25	6.39	6.53	6.67	6.82	6.96	7.11	7.27	7.42	7.58	7.75
21.0	6.34	6.48	6.62	6.76	6.91	7.06	7.21	7.37	7.53	7.69	7.85

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.20	8.21	8.22	8.23	8.24	8.25	8.26	8.27	8.28	8.29	8.30
21.0	6.34	6.48	6.62	6.76	6.91	7.06	7.21	7.37	7.53	7.69	7.85
21.2	6.43	6.57	6.71	6.85	7.00	7.15	7.31	7.47	7.63	7.79	7.96
21.4	6.51	6.66	6.80	6.95	7.10	7.25	7.41	7.57	7.73	7.90	8.06
21.6	6.60	6.75	6.89	7.04	7.19	7.35	7.51	7.67	7.83	8.00	8.17
21.8	6.69	6.84	6.99	7.14	7.29	7.45	7.61	7.77	7.94	8.11	8.28
22.0	6.78	6.93	7.08	7.23	7.39	7.55	7.71	7.88	8.04	8.22	8.39
22.2	6.87	7.02	7.18	7.33	7.49	7.65	7.81	7.98	8.15	8.33	8.50
22.4	6.97	7.12	7.27	7.43	7.59	7.75	7.92	8.09	8.26	8.44	8.62
22.6	7.06	7.21	7.37	7.53	7.69	7.86	8.02	8.20	8.37	8.55	8.73
22.8	7.16	7.31	7.47	7.63	7.79	7.96	8.13	8.30	8.48	8.66	8.85
23.0	7.25	7.41	7.57	7.73	7.90	8.07	8.24	8.41	8.59	8.78	8.96
23.2	7.35	7.51	7.67	7.83	8.00	8.17	8.35	8.52	8.71	8.89	9.08
23.4	7.45	7.61	7.77	7.94	8.11	8.28	8.46	8.64	8.82	9.01	9.20
23.6	7.55	7.71	7.87	8.04	8.21	8.39	8.57	8.75	8.94	9.12	9.32
23.8	7.65	7.81	7.98	8.15	8.32	8.50	8.68	8.86	9.05	9.24	9.44
24.0	7.75	7.91	8.08	8.26	8.43	8.61	8.79	8.98	9.17	9.36	9.56
24.2	7.85	8.02	8.19	8.36	8.54	8.72	8.91	9.10	9.29	9.49	9.68
24.4	7.95	8.12	8.30	8.47	8.65	8.84	9.02	9.22	9.41	9.61	9.81
24.6	8.06	8.23	8.40	8.58	8.77	8.95	9.14	9.33	9.53	9.73	9.94
24.8	8.16	8.34	8.51	8.70	8.88	9.07	9.26	9.46	9.65	9.86	10.06
25.0	8.27	8.45	8.63	8.81	9.00	9.19	9.38	9.58	9.78	9.98	10.19
25.2	8.38	8.56	8.74	8.92	9.11	9.30	9.50	9.70	9.90	10.11	10.32
25.4	8.49	8.67	8.85	9.04	9.23	9.42	9.62	9.82	10.03	10.24	10.45
25.6	8.60	8.78	8.96	9.15	9.35	9.54	9.75	9.95	10.16	10.37	10.59
25.8	8.71	8.89	9.08	9.27	9.47	9.67	9.87	10.08	10.29	10.50	10.72
26.0	8.82	9.01	9.20	9.39	9.59	9.79	10.00	10.20	10.42	10.63	10.86
26.2	8.93	9.12	9.31	9.51	9.71	9.91	10.12	10.33	10.55	10.77	10.99
26.4	9.05	9.24	9.43	9.63	9.83	10.04	10.25	10.46	10.68	10.90	11.13
26.6	9.16	9.36	9.55	9.75	9.96	10.17	10.38	10.60	10.82	11.04	11.27
26.8	9.28	9.48	9.68	9.88	10.09	10.30	10.51	10.73	10.95	11.18	11.41
27.0	9.40	9.60	9.80	10.00	10.21	10.43	10.64	10.86	11.09	11.32	11.55
27.2	9.52	9.72	9.92	10.13	10.34	10.56	10.78	11.00	11.23	11.46	11.69
27.4	9.64	9.84	10.05	10.26	10.47	10.69	10.91	11.14	11.37	11.60	11.84
27.6	9.76	9.96	10.17	10.39	10.60	10.82	11.05	11.27	11.51	11.74	11.98
27.8	9.88	10.09	10.30	10.52	10.73	10.96	11.18	11.41	11.65	11.89	12.13
28.0	10.0	10.2	10.4	10.6	10.9	11.1	11.3	11.6	11.8	12.0	12.3

TEMP DEG C	PH 8.20	8.21	8.22	8.23	8.24	8.25	8.26	8.27	8.28	8.29	8.30
28.0	10.0	10.2	10.4	10.6	10.9	11.1	11.3	11.6	11.8	12.0	12.3
28.2	10.1	10.3	10.6	10.8	11.0	11.2	11.5	11.7	11.9	12.2	12.4
28.4	10.3	10.5	10.7	10.9	11.1	11.4	11.6	11.8	12.1	12.3	12.6
28.6	10.4	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7
28.8	10.5	10.7	11.0	11.2	11.4	11.7	11.9	12.1	12.4	12.6	12.9
29.0	10.6	10.9	11.1	11.3	11.6	11.8	12.0	12.3	12.5	12.8	13.0
29.2	10.8	11.0	11.2	11.5	11.7	11.9	12.2	12.4	12.7	12.9	13.2
29.4	10.9	11.1	11.4	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.4
29.6	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.3	13.5
29.8	11.2	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1	13.4	13.7
30.0	11.3	11.6	11.8	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8
30.2	11.5	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0
30.4	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.4	13.6	13.9	14.2
30.6	11.7	12.0	12.2	12.5	12.7	13.0	13.2	13.5	13.8	14.1	14.3
30.8	11.9	12.1	12.4	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.5
31.0	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1	14.4	14.7
31.2	12.2	12.4	12.7	12.9	13.2	13.4	13.7	14.0	14.3	14.6	14.8
31.4	12.3	12.6	12.8	13.1	13.3	13.6	13.9	14.2	14.4	14.7	15.0
31.6	12.5	12.7	13.0	13.2	13.5	13.8	14.0	14.3	14.6	14.9	15.2
31.8	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.5	14.8	15.1	15.4
32.0	12.8	13.0	13.3	13.5	13.8	14.1	14.4	14.7	14.9	15.2	15.5
32.2	12.9	13.2	13.4	13.7	14.0	14.3	14.5	14.8	15.1	15.4	15.7
32.4	13.1	13.3	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.6	15.9
32.6	13.2	13.5	13.7	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1
32.8	13.4	13.6	13.9	14.2	14.5	14.8	15.0	15.3	15.6	16.0	16.3
33.0	13.5	13.8	14.1	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4
33.2	13.7	14.0	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6
33.4	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8
33.6	14.0	14.3	14.6	14.8	15.1	15.4	15.7	16.1	16.4	16.7	17.0
33.8	14.2	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.9	17.2
34.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.1	17.4
34.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.2	17.6
34.4	14.7	14.9	15.2	15.5	15.8	16.1	16.5	16.8	17.1	17.4	17.8
34.6	14.8	15.1	15.4	15.7	16.0	16.3	16.6	17.0	17.3	17.6	18.0
34.8	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.2	17.5	17.8	18.2
35.0	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.3	17.7	18.0	18.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.20	8.21	8.22	8.23	8.24	8.25	8.26	8.27	8.28	8.29	8.30
35.0	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.3	17.7	18.0	18.4
35.2	15.3	15.6	15.9	16.2	16.6	16.9	17.2	17.5	17.9	18.2	18.6
35.4	15.5	15.8	16.1	16.4	16.7	17.1	17.4	17.7	18.1	18.4	18.8
35.6	15.7	16.0	16.3	16.6	16.9	17.3	17.6	17.9	18.3	18.6	19.0
35.8	15.8	16.2	16.5	16.8	17.1	17.4	17.8	18.1	18.5	18.8	19.2
36.0	16.0	16.3	16.7	17.0	17.3	17.6	18.0	18.3	18.7	19.0	19.4
36.2	16.2	16.5	16.8	17.2	17.5	17.8	18.2	18.5	18.9	19.2	19.6
36.4	16.4	16.7	17.0	17.3	17.7	18.0	18.4	18.7	19.1	19.4	19.8
36.6	16.6	16.9	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6	20.0
36.8	16.7	17.1	17.4	17.7	18.1	18.4	18.8	19.1	19.5	19.8	20.2
37.0	16.9	17.3	17.6	17.9	18.3	18.6	19.0	19.3	19.7	20.0	20.4
37.2	17.1	17.4	17.8	18.1	18.5	18.8	19.2	19.5	19.9	20.3	20.6
37.4	17.3	17.6	18.0	18.3	18.7	19.0	19.4	19.7	20.1	20.5	20.8
37.6	17.5	17.8	18.2	18.5	18.8	19.2	19.6	19.9	20.3	20.7	21.1
37.8	17.7	18.0	18.3	18.7	19.0	19.4	19.8	20.1	20.5	20.9	21.3
38.0	17.9	18.2	18.5	18.9	19.3	19.6	20.0	20.3	20.7	21.1	21.5
38.2	18.1	18.4	18.7	19.1	19.5	19.8	20.2	20.6	20.9	21.3	21.7
38.4	18.2	18.6	18.9	19.3	19.7	20.0	20.4	20.8	21.2	21.5	21.9
38.6	18.4	18.8	19.1	19.5	19.9	20.2	20.6	21.0	21.4	21.8	22.2
38.8	18.6	19.0	19.3	19.7	20.1	20.4	20.8	21.2	21.6	22.0	22.4
39.0	18.8	19.2	19.5	19.9	20.3	20.7	21.0	21.4	21.8	22.2	22.6
39.2	19.0	19.4	19.7	20.1	20.5	20.9	21.2	21.6	22.0	22.4	22.8
39.4	19.2	19.6	20.0	20.3	20.7	21.1	21.5	21.9	22.2	22.6	23.1
39.6	19.4	19.8	20.2	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.3
39.8	19.6	20.0	20.4	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5
40.0	19.8	20.2	20.6	21.0	21.3	21.7	22.1	22.5	22.9	23.3	23.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.30	8.31	8.32	8.33	8.34	8.35	8.36	8.37	8.38	8.39	8.40
.0	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.99	2.03
.2	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.93	1.98	2.02	2.07
.4	1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.97	2.01	2.06	2.10
.6	1.71	1.74	1.78	1.83	1.87	1.91	1.95	2.00	2.04	2.09	2.14
.8	1.73	1.77	1.81	1.86	1.90	1.94	1.99	2.03	2.08	2.12	2.17
1.0	1.76	1.80	1.84	1.89	1.93	1.97	2.02	2.06	2.11	2.16	2.21
1.2	1.79	1.83	1.87	1.92	1.96	2.01	2.05	2.10	2.15	2.20	2.25
1.4	1.82	1.86	1.91	1.95	1.99	2.04	2.09	2.13	2.18	2.23	2.28
1.6	1.85	1.89	1.94	1.98	2.03	2.07	2.12	2.17	2.22	2.27	2.32
1.8	1.88	1.92	1.97	2.01	2.06	2.11	2.15	2.20	2.25	2.31	2.36
2.0	1.91	1.96	2.00	2.05	2.09	2.14	2.19	2.24	2.29	2.34	2.40
2.2	1.94	1.99	2.03	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.44
2.4	1.98	2.02	2.07	2.11	2.16	2.21	2.26	2.31	2.37	2.42	2.47
2.6	2.01	2.05	2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.46	2.51
2.8	2.04	2.09	2.13	2.18	2.23	2.28	2.34	2.39	2.44	2.50	2.56
3.0	2.07	2.12	2.17	2.22	2.27	2.32	2.37	2.43	2.48	2.54	2.60
3.2	2.11	2.16	2.20	2.26	2.31	2.36	2.41	2.47	2.52	2.58	2.64
3.4	2.14	2.19	2.24	2.29	2.34	2.40	2.45	2.51	2.56	2.62	2.68
3.6	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55	2.61	2.66	2.72
3.8	2.21	2.26	2.31	2.37	2.42	2.48	2.53	2.59	2.65	2.71	2.77
4.0	2.25	2.30	2.35	2.40	2.46	2.51	2.57	2.63	2.69	2.75	2.81
4.2	2.28	2.34	2.39	2.44	2.50	2.56	2.61	2.67	2.73	2.79	2.86
4.4	2.32	2.37	2.43	2.48	2.54	2.60	2.66	2.72	2.78	2.84	2.90
4.6	2.36	2.41	2.47	2.52	2.58	2.64	2.70	2.76	2.82	2.88	2.95
4.8	2.40	2.45	2.51	2.56	2.62	2.68	2.74	2.80	2.87	2.93	3.00
5.0	2.43	2.49	2.55	2.60	2.66	2.72	2.78	2.85	2.91	2.98	3.04
5.2	2.47	2.53	2.59	2.64	2.70	2.77	2.83	2.89	2.96	3.02	3.09
5.4	2.51	2.57	2.63	2.69	2.75	2.81	2.87	2.94	3.00	3.07	3.14
5.6	2.55	2.61	2.67	2.73	2.79	2.85	2.92	2.98	3.05	3.12	3.19
5.8	2.59	2.65	2.71	2.77	2.84	2.90	2.96	3.03	3.10	3.17	3.24
6.0	2.63	2.69	2.75	2.82	2.88	2.95	3.01	3.08	3.15	3.22	3.29
6.2	2.67	2.74	2.80	2.86	2.93	2.99	3.06	3.13	3.20	3.27	3.34
6.4	2.72	2.78	2.84	2.91	2.97	3.04	3.11	3.18	3.25	3.32	3.40
6.6	2.76	2.82	2.89	2.95	3.02	3.09	3.16	3.23	3.30	3.37	3.45
6.8	2.80	2.87	2.93	3.00	3.07	3.13	3.21	3.28	3.35	3.43	3.50
7.0	2.85	2.91	2.98	3.04	3.11	3.18	3.26	3.33	3.40	3.48	3.56

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.30	8.31	8.32	8.33	8.34	8.35	8.36	8.37	8.38	8.39	8.40
7.0	2.85	2.91	2.98	3.04	3.11	3.18	3.26	3.33	3.40	3.48	3.56
7.2	2.89	2.96	3.02	3.09	3.16	3.23	3.31	3.38	3.46	3.53	3.61
7.4	2.94	3.00	3.07	3.14	3.21	3.28	3.36	3.43	3.51	3.59	3.67
7.6	2.98	3.05	3.12	3.19	3.26	3.33	3.41	3.49	3.56	3.64	3.73
7.8	3.03	3.10	3.17	3.24	3.31	3.39	3.46	3.54	3.62	3.70	3.78
8.0	3.08	3.15	3.22	3.29	3.36	3.44	3.52	3.60	3.68	3.76	3.84
8.2	3.12	3.19	3.27	3.34	3.42	3.49	3.57	3.65	3.73	3.82	3.90
8.4	3.17	3.24	3.32	3.39	3.47	3.55	3.63	3.71	3.79	3.87	3.96
8.6	3.22	3.29	3.37	3.44	3.52	3.60	3.68	3.76	3.85	3.93	4.02
8.8	3.27	3.34	3.42	3.50	3.58	3.66	3.74	3.82	3.91	3.99	4.08
9.0	3.32	3.40	3.47	3.55	3.63	3.71	3.80	3.88	3.97	4.06	4.15
9.2	3.37	3.45	3.53	3.61	3.69	3.77	3.85	3.94	4.03	4.12	4.21
9.4	3.42	3.50	3.58	3.66	3.74	3.83	3.91	4.00	4.09	4.18	4.27
9.6	3.48	3.55	3.63	3.72	3.80	3.88	3.97	4.06	4.15	4.24	4.34
9.8	3.53	3.61	3.69	3.77	3.86	3.94	4.03	4.12	4.21	4.31	4.40
10.0	3.58	3.66	3.75	3.83	3.92	4.00	4.09	4.18	4.28	4.37	4.47
10.2	3.64	3.72	3.80	3.89	3.98	4.06	4.15	4.25	4.34	4.44	4.54
10.4	3.69	3.78	3.86	3.95	4.04	4.13	4.22	4.31	4.41	4.51	4.61
10.6	3.75	3.83	3.92	4.01	4.10	4.19	4.28	4.38	4.47	4.57	4.67
10.8	3.81	3.89	3.98	4.07	4.16	4.25	4.35	4.44	4.54	4.64	4.74
11.0	3.86	3.95	4.04	4.13	4.22	4.31	4.41	4.51	4.61	4.71	4.82
11.2	3.92	4.01	4.10	4.19	4.28	4.38	4.48	4.58	4.68	4.78	4.89
11.4	3.98	4.07	4.16	4.25	4.35	4.44	4.54	4.64	4.75	4.85	4.96
11.6	4.04	4.13	4.22	4.32	4.41	4.51	4.61	4.71	4.82	4.92	5.03
11.8	4.10	4.19	4.29	4.38	4.48	4.58	4.68	4.78	4.89	5.00	5.11
12.0	4.16	4.25	4.35	4.45	4.55	4.65	4.75	4.85	4.96	5.07	5.18
12.2	4.22	4.32	4.41	4.51	4.61	4.72	4.82	4.93	5.04	5.15	5.26
12.4	4.29	4.38	4.48	4.58	4.68	4.78	4.89	5.00	5.11	5.22	5.34
12.6	4.35	4.45	4.55	4.65	4.75	4.86	4.96	5.07	5.18	5.30	5.42
12.8	4.41	4.51	4.61	4.72	4.82	4.93	5.04	5.15	5.26	5.38	5.50
13.0	4.48	4.58	4.68	4.79	4.89	5.00	5.11	5.22	5.34	5.46	5.58
13.2	4.55	4.65	4.75	4.86	4.96	5.07	5.18	5.30	5.42	5.54	5.66
13.4	4.61	4.72	4.82	4.93	5.04	5.15	5.26	5.38	5.49	5.62	5.74
13.6	4.68	4.78	4.89	5.00	5.11	5.22	5.34	5.45	5.57	5.70	5.82
13.8	4.75	4.85	4.96	5.07	5.18	5.30	5.41	5.53	5.66	5.78	5.91
14.0	4.82	4.93	5.03	5.15	5.26	5.38	5.49	5.61	5.74	5.86	5.99

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.30	8.31	8.32	8.33	8.34	8.35	8.36	8.37	8.38	8.39	8.40
14.0	4.82	4.93	5.03	5.15	5.26	5.38	5.49	5.61	5.74	5.86	5.99
14.2	4.89	5.00	5.11	5.22	5.34	5.45	5.57	5.70	5.82	5.95	6.08
14.4	4.96	5.07	5.18	5.30	5.41	5.53	5.65	5.78	5.90	6.03	6.17
14.6	5.03	5.14	5.26	5.37	5.49	5.61	5.74	5.86	5.99	6.12	6.25
14.8	5.11	5.22	5.33	5.45	5.57	5.69	5.82	5.95	6.08	6.21	6.34
15.0	5.18	5.29	5.41	5.53	5.65	5.77	5.90	6.03	6.16	6.30	6.43
15.2	5.25	5.37	5.49	5.61	5.73	5.86	5.99	6.12	6.25	6.39	6.53
15.4	5.33	5.45	5.57	5.69	5.81	5.94	6.07	6.20	6.34	6.48	6.62
15.6	5.41	5.53	5.65	5.77	5.90	6.03	6.16	6.29	6.43	6.57	6.71
15.8	5.48	5.60	5.73	5.85	5.98	6.11	6.25	6.38	6.52	6.66	6.81
16.0	5.56	5.68	5.81	5.94	6.07	6.20	6.33	6.47	6.61	6.76	6.90
16.2	5.64	5.77	5.89	6.02	6.15	6.29	6.42	6.56	6.71	6.85	7.00
16.4	5.72	5.85	5.98	6.11	6.24	6.38	6.51	6.66	6.80	6.95	7.10
16.6	5.80	5.93	6.06	6.19	6.33	6.47	6.61	6.75	6.90	7.05	7.20
16.8	5.89	6.01	6.15	6.28	6.42	6.56	6.70	6.84	6.99	7.14	7.30
17.0	5.97	6.10	6.23	6.37	6.51	6.65	6.79	6.94	7.09	7.24	7.40
17.2	6.05	6.19	6.32	6.46	6.60	6.74	6.89	7.04	7.19	7.34	7.50
17.4	6.14	6.27	6.41	6.55	6.69	6.84	6.98	7.14	7.29	7.45	7.61
17.6	6.22	6.36	6.50	6.64	6.78	6.93	7.08	7.23	7.39	7.55	7.71
17.8	6.31	6.45	6.59	6.73	6.88	7.03	7.18	7.34	7.49	7.65	7.82
18.0	6.40	6.54	6.68	6.83	6.97	7.13	7.28	7.44	7.60	7.76	7.93
18.2	6.49	6.63	6.77	6.92	7.07	7.22	7.38	7.54	7.70	7.87	8.04
18.4	6.58	6.72	6.87	7.02	7.17	7.32	7.48	7.64	7.81	7.97	8.15
18.6	6.67	6.82	6.96	7.11	7.27	7.43	7.58	7.75	7.91	8.08	8.26
18.8	6.76	6.91	7.06	7.21	7.37	7.53	7.69	7.85	8.02	8.19	8.37
19.0	6.86	7.01	7.16	7.31	7.47	7.63	7.79	7.96	8.13	8.31	8.48
19.2	6.95	7.10	7.26	7.41	7.57	7.73	7.90	8.07	8.24	8.42	8.60
19.4	7.05	7.20	7.36	7.51	7.68	7.84	8.01	8.18	8.35	8.53	8.71
19.6	7.14	7.30	7.46	7.62	7.78	7.95	8.12	8.29	8.47	8.65	8.83
19.8	7.24	7.40	7.56	7.72	7.89	8.05	8.23	8.40	8.58	8.76	8.95
20.0	7.34	7.50	7.66	7.82	7.99	8.16	8.34	8.52	8.70	8.88	9.07
20.2	7.44	7.60	7.76	7.93	8.10	8.27	8.45	8.63	8.81	9.00	9.19
20.4	7.54	7.70	7.87	8.04	8.21	8.39	8.56	8.75	8.93	9.12	9.31
20.6	7.64	7.81	7.98	8.15	8.32	8.50	8.68	8.86	9.05	9.24	9.44
20.8	7.75	7.91	8.08	8.26	8.43	8.61	8.79	8.98	9.17	9.36	9.56
21.0	7.85	8.02	8.19	8.37	8.55	8.73	8.91	9.10	9.29	9.49	9.69

TEMP DEG C	PH 8.30	8.31	8.32	8.33	8.34	8.35	8.36	8.37	8.38	8.39	8.40
21.0	7.85	8.02	8.19	8.37	8.55	8.73	8.91	9.10	9.29	9.49	9.69
21.2	7.96	8.13	8.30	8.48	8.66	8.84	9.03	9.22	9.42	9.61	9.82
21.4	8.06	8.24	8.41	8.59	8.77	8.96	9.15	9.34	9.54	9.74	9.95
21.6	8.17	8.35	8.52	8.71	8.89	9.08	9.27	9.47	9.67	9.87	10.08
21.8	8.28	8.46	8.64	8.82	9.01	9.20	9.39	9.59	9.79	10.00	10.21
22.0	8.39	8.57	8.75	8.94	9.13	9.32	9.52	9.72	9.92	10.13	10.34
22.2	8.50	8.68	8.87	9.06	9.25	9.44	9.64	9.84	10.05	10.26	10.47
22.4	8.62	8.80	8.99	9.18	9.37	9.57	9.77	9.97	10.18	10.39	10.61
22.6	8.73	8.92	9.10	9.30	9.49	9.69	9.90	10.10	10.31	10.53	10.75
22.8	8.85	9.03	9.22	9.42	9.62	9.82	10.02	10.23	10.45	10.66	10.89
23.0	8.96	9.15	9.34	9.54	9.74	9.95	10.15	10.37	10.58	10.80	11.03
23.2	9.08	9.27	9.47	9.67	9.87	10.08	10.29	10.50	10.72	10.94	11.17
23.4	9.20	9.39	9.59	9.79	10.00	10.21	10.42	10.64	10.86	11.08	11.31
23.6	9.32	9.51	9.71	9.92	10.13	10.34	10.55	10.77	10.99	11.22	11.45
23.8	9.44	9.64	9.84	10.05	10.26	10.47	10.69	10.91	11.14	11.37	11.60
24.0	9.56	9.76	9.97	10.18	10.39	10.60	10.82	11.05	11.28	11.51	11.75
24.2	9.68	9.89	10.10	10.31	10.52	10.74	10.96	11.19	11.42	11.66	11.89
24.4	9.81	10.02	10.22	10.44	10.66	10.88	11.10	11.33	11.56	11.80	12.04
24.6	9.94	10.14	10.36	10.57	10.79	11.01	11.24	11.47	11.71	11.95	12.19
24.8	10.1	10.3	10.5	10.7	10.9	11.2	11.4	11.6	11.9	12.1	12.3
25.0	10.2	10.4	10.6	10.8	11.1	11.3	11.5	11.8	12.0	12.3	12.5
25.2	10.3	10.5	10.8	11.0	11.2	11.4	11.7	11.9	12.2	12.4	12.7
25.4	10.5	10.7	10.9	11.1	11.3	11.6	11.8	12.1	12.3	12.6	12.8
25.6	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0
25.8	10.7	10.9	11.2	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1
26.0	10.9	11.1	11.3	11.5	11.8	12.0	12.3	12.5	12.8	13.0	13.3
26.2	11.0	11.2	11.5	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.5
26.4	11.1	11.4	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.4	13.6
26.6	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.2	13.5	13.8
26.8	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1	13.4	13.7	14.0
27.0	11.6	11.8	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1
27.2	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0	14.3
27.4	11.8	12.1	12.3	12.6	12.8	13.1	13.4	13.6	13.9	14.2	14.5
27.6	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.3	14.6
27.8	12.1	12.4	12.6	12.9	13.1	13.4	13.7	14.0	14.2	14.5	14.8
28.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1	14.4	14.7	15.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.30	8.31	8.32	8.33	8.34	8.35	8.36	8.37	8.38	8.39	8.40
28.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1	14.4	14.7	15.0
28.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0	14.3	14.6	14.9	15.2
28.4	12.6	12.8	13.1	13.4	13.6	13.9	14.2	14.5	14.8	15.0	15.3
28.6	12.7	13.0	13.3	13.5	13.8	14.1	14.4	14.6	14.9	15.2	15.5
28.8	12.9	13.1	13.4	13.7	14.0	14.2	14.5	14.8	15.1	15.4	15.7
29.0	13.0	13.3	13.6	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9
29.2	13.2	13.5	13.7	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1
29.4	13.4	13.6	13.9	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.3
29.6	13.5	13.8	14.1	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4
29.8	13.7	14.0	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6
30.0	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8
30.2	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0
30.4	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.2	16.6	16.9	17.2
30.6	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.8	17.1	17.4
30.8	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.3	17.6
31.0	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1	17.5	17.8
31.2	14.8	15.1	15.4	15.7	16.0	16.4	16.7	17.0	17.3	17.7	18.0
31.4	15.0	15.3	15.6	15.9	16.2	16.5	16.9	17.2	17.5	17.9	18.2
31.6	15.2	15.5	15.8	16.1	16.4	16.7	17.1	17.4	17.7	18.1	18.4
31.8	15.4	15.7	16.0	16.3	16.6	16.9	17.2	17.6	17.9	18.3	18.6
32.0	15.5	15.8	16.2	16.5	16.8	17.1	17.4	17.8	18.1	18.5	18.8
32.2	15.7	16.0	16.3	16.7	17.0	17.3	17.6	18.0	18.3	18.7	19.0
32.4	15.9	16.2	16.5	16.8	17.2	17.5	17.8	18.2	18.5	18.9	19.2
32.6	16.1	16.4	16.7	17.0	17.4	17.7	18.0	18.4	18.7	19.1	19.4
32.8	16.3	16.6	16.9	17.2	17.6	17.9	18.2	18.6	18.9	19.3	19.6
33.0	16.4	16.8	17.1	17.4	17.8	18.1	18.4	18.8	19.1	19.5	19.9
33.2	16.6	17.0	17.3	17.6	17.9	18.3	18.6	19.0	19.3	19.7	20.1
33.4	16.8	17.1	17.5	17.8	18.1	18.5	18.8	19.2	19.6	19.9	20.3
33.6	17.0	17.3	17.7	18.0	18.3	18.7	19.0	19.4	19.8	20.1	20.5
33.8	17.2	17.5	17.9	18.2	18.5	18.9	19.3	19.6	20.0	20.3	20.7
34.0	17.4	17.7	18.1	18.4	18.7	19.1	19.5	19.8	20.2	20.6	20.9
34.2	17.6	17.9	18.3	18.6	19.0	19.3	19.7	20.0	20.4	20.8	21.2
34.4	17.8	18.1	18.5	18.8	19.2	19.5	19.9	20.2	20.6	21.0	21.4
34.6	18.0	18.3	18.7	19.0	19.4	19.7	20.1	20.5	20.8	21.2	21.6
34.8	18.2	18.5	18.9	19.2	19.6	19.9	20.3	20.7	21.1	21.4	21.8
35.0	18.4	18.7	19.1	19.4	19.8	20.1	20.5	20.9	21.3	21.7	22.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.30	8.31	8.32	8.33	8.34	8.35	8.36	8.37	8.38	8.39	8.40
35.0	18.4	18.7	19.1	19.4	19.8	20.1	20.5	20.9	21.3	21.7	22.1
35.2	18.6	18.9	19.3	19.6	20.0	20.4	20.7	21.1	21.5	21.9	22.3
35.4	18.8	19.1	19.5	19.8	20.2	20.6	21.0	21.3	21.7	22.1	22.5
35.6	19.0	19.3	19.7	20.0	20.4	20.8	21.2	21.6	22.0	22.4	22.8
35.8	19.2	19.5	19.9	20.3	20.6	21.0	21.4	21.8	22.2	22.6	23.0
36.0	19.4	19.7	20.1	20.5	20.8	21.2	21.6	22.0	22.4	22.8	23.2
36.2	19.6	19.9	20.3	20.7	21.1	21.4	21.8	22.2	22.6	23.0	23.5
36.4	19.8	20.1	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7
36.6	20.0	20.4	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9
36.8	20.2	20.6	21.0	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.2
37.0	20.4	20.8	21.2	21.6	21.9	22.3	22.7	23.2	23.6	24.0	24.4
37.2	20.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.6
37.4	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.5	24.9
37.6	21.1	21.4	21.8	22.2	22.6	23.0	23.4	23.9	24.3	24.7	25.1
37.8	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.5	24.9	25.4
38.0	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.3	24.8	25.2	25.6
38.2	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.6	25.0	25.4	25.9
38.4	21.9	22.3	22.7	23.1	23.5	24.0	24.4	24.8	25.2	25.7	26.1
38.6	22.2	22.6	23.0	23.4	23.8	24.2	24.6	25.1	25.5	25.9	26.4
38.8	22.4	22.8	23.2	23.6	24.0	24.4	24.9	25.3	25.7	26.2	26.6
39.0	22.6	23.0	23.4	23.8	24.3	24.7	25.1	25.5	26.0	26.4	26.9
39.2	22.8	23.2	23.6	24.1	24.5	24.9	25.4	25.8	26.2	26.7	27.1
39.4	23.1	23.5	23.9	24.3	24.7	25.2	25.6	26.0	26.5	26.9	27.4
39.6	23.3	23.7	24.1	24.5	25.0	25.4	25.8	26.3	26.7	27.2	27.6
39.8	23.5	23.9	24.4	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9
40.0	23.7	24.2	24.6	25.0	25.5	25.9	26.3	26.8	27.2	27.7	28.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.40	8.41	8.42	8.43	8.44	8.45	8.46	8.47	8.48	8.49	8.50
.0	2.03	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.44	2.49	2.55
.2	2.07	2.12	2.16	2.21	2.26	2.31	2.37	2.42	2.48	2.53	2.59
.4	2.10	2.15	2.20	2.25	2.30	2.35	2.41	2.46	2.52	2.57	2.63
.6	2.14	2.19	2.24	2.29	2.34	2.39	2.45	2.50	2.56	2.62	2.68
.8	2.17	2.22	2.27	2.32	2.38	2.43	2.49	2.54	2.60	2.66	2.72
1.0	2.21	2.26	2.31	2.36	2.42	2.47	2.53	2.59	2.64	2.70	2.76
1.2	2.25	2.30	2.35	2.40	2.46	2.51	2.57	2.63	2.69	2.75	2.81
1.4	2.28	2.33	2.39	2.44	2.50	2.55	2.61	2.67	2.73	2.79	2.86
1.6	2.32	2.37	2.43	2.48	2.54	2.60	2.65	2.71	2.78	2.84	2.90
1.8	2.36	2.41	2.47	2.52	2.58	2.64	2.70	2.76	2.82	2.88	2.95
2.0	2.40	2.45	2.51	2.56	2.62	2.68	2.74	2.80	2.87	2.93	3.00
2.2	2.44	2.49	2.55	2.60	2.66	2.72	2.79	2.85	2.91	2.98	3.05
2.4	2.47	2.53	2.59	2.65	2.71	2.77	2.83	2.90	2.96	3.03	3.10
2.6	2.51	2.57	2.63	2.69	2.75	2.81	2.88	2.94	3.01	3.08	3.15
2.8	2.56	2.61	2.67	2.73	2.80	2.86	2.92	2.99	3.06	3.13	3.20
3.0	2.60	2.66	2.72	2.78	2.84	2.90	2.97	3.04	3.11	3.18	3.25
3.2	2.64	2.70	2.76	2.82	2.89	2.95	3.02	3.09	3.16	3.23	3.30
3.4	2.68	2.74	2.80	2.87	2.93	3.00	3.07	3.14	3.21	3.28	3.35
3.6	2.72	2.79	2.85	2.91	2.98	3.05	3.12	3.19	3.26	3.33	3.41
3.8	2.77	2.83	2.90	2.96	3.03	3.10	3.17	3.24	3.31	3.38	3.46
4.0	2.81	2.88	2.94	3.01	3.08	3.15	3.22	3.29	3.36	3.44	3.52
4.2	2.86	2.92	2.99	3.06	3.13	3.20	3.27	3.34	3.42	3.49	3.57
4.4	2.90	2.97	3.04	3.10	3.18	3.25	3.32	3.39	3.47	3.55	3.63
4.6	2.95	3.02	3.08	3.15	3.23	3.30	3.37	3.45	3.53	3.60	3.69
4.8	3.00	3.06	3.13	3.20	3.28	3.35	3.43	3.50	3.58	3.66	3.74
5.0	3.04	3.11	3.18	3.26	3.33	3.40	3.48	3.56	3.64	3.72	3.80
5.2	3.09	3.16	3.23	3.31	3.38	3.46	3.53	3.61	3.70	3.78	3.86
5.4	3.14	3.21	3.29	3.36	3.43	3.51	3.59	3.67	3.75	3.84	3.92
5.6	3.19	3.26	3.34	3.41	3.49	3.57	3.65	3.73	3.81	3.90	3.98
5.8	3.24	3.31	3.39	3.47	3.54	3.62	3.70	3.79	3.87	3.96	4.05
6.0	3.29	3.37	3.44	3.52	3.60	3.68	3.76	3.85	3.93	4.02	4.11
6.2	3.34	3.42	3.50	3.58	3.66	3.74	3.82	3.91	3.99	4.08	4.17
6.4	3.40	3.47	3.55	3.63	3.71	3.80	3.88	3.97	4.06	4.15	4.24
6.6	3.45	3.53	3.61	3.69	3.77	3.85	3.94	4.03	4.12	4.21	4.30
6.8	3.50	3.58	3.66	3.74	3.83	3.91	4.00	4.09	4.18	4.28	4.37
7.0	3.56	3.64	3.72	3.80	3.89	3.98	4.06	4.15	4.25	4.34	4.44

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.40	8.41	8.42	8.43	8.44	8.45	8.46	8.47	8.48	8.49	8.50
7.0	3.56	3.64	3.72	3.80	3.89	3.98	4.06	4.15	4.25	4.34	4.44
7.2	3.61	3.69	3.78	3.86	3.95	4.04	4.13	4.22	4.31	4.41	4.51
7.4	3.67	3.75	3.84	3.92	4.01	4.10	4.19	4.28	4.38	4.48	4.58
7.6	3.73	3.81	3.90	3.98	4.07	4.16	4.26	4.35	4.45	4.55	4.65
7.8	3.78	3.87	3.96	4.04	4.13	4.23	4.32	4.42	4.51	4.62	4.72
8.0	3.84	3.93	4.02	4.11	4.20	4.29	4.39	4.48	4.58	4.69	4.79
8.2	3.90	3.99	4.08	4.17	4.26	4.36	4.45	4.55	4.65	4.76	4.86
8.4	3.96	4.05	4.14	4.23	4.33	4.42	4.52	4.62	4.72	4.83	4.94
8.6	4.02	4.11	4.20	4.30	4.39	4.49	4.59	4.69	4.80	4.90	5.01
8.8	4.08	4.17	4.27	4.36	4.46	4.56	4.66	4.76	4.87	4.98	5.09
9.0	4.15	4.24	4.33	4.43	4.53	4.63	4.73	4.84	4.94	5.05	5.16
9.2	4.21	4.30	4.40	4.50	4.60	4.70	4.80	4.91	5.02	5.13	5.24
9.4	4.27	4.37	4.47	4.56	4.67	4.77	4.88	4.98	5.09	5.21	5.32
9.6	4.34	4.43	4.53	4.63	4.74	4.84	4.95	5.06	5.17	5.28	5.40
9.8	4.40	4.50	4.60	4.70	4.81	4.91	5.02	5.13	5.25	5.36	5.48
10.0	4.47	4.57	4.67	4.77	4.88	4.99	5.10	5.21	5.33	5.44	5.56
10.2	4.54	4.64	4.74	4.85	4.95	5.06	5.17	5.29	5.41	5.52	5.65
10.4	4.61	4.71	4.81	4.92	5.03	5.14	5.25	5.37	5.49	5.61	5.73
10.6	4.67	4.78	4.88	4.99	5.10	5.22	5.33	5.45	5.57	5.69	5.81
10.8	4.74	4.85	4.96	5.07	5.18	5.29	5.41	5.53	5.65	5.77	5.90
11.0	4.82	4.92	5.03	5.14	5.26	5.37	5.49	5.61	5.73	5.86	5.99
11.2	4.89	5.00	5.11	5.22	5.33	5.45	5.57	5.69	5.82	5.95	6.08
11.4	4.96	5.07	5.18	5.30	5.41	5.53	5.65	5.78	5.90	6.03	6.17
11.6	5.03	5.14	5.26	5.37	5.49	5.61	5.74	5.86	5.99	6.12	6.26
11.8	5.11	5.22	5.34	5.45	5.57	5.70	5.82	5.95	6.08	6.21	6.35
12.0	5.18	5.30	5.41	5.53	5.66	5.78	5.91	6.04	6.17	6.30	6.44
12.2	5.26	5.38	5.49	5.62	5.74	5.86	5.99	6.12	6.26	6.39	6.53
12.4	5.34	5.45	5.57	5.70	5.82	5.95	6.08	6.21	6.35	6.49	6.63
12.6	5.42	5.53	5.66	5.78	5.91	6.04	6.17	6.30	6.44	6.58	6.72
12.8	5.50	5.62	5.74	5.87	5.99	6.12	6.26	6.39	6.53	6.68	6.82
13.0	5.58	5.70	5.82	5.95	6.08	6.21	6.35	6.49	6.63	6.77	6.92
13.2	5.66	5.78	5.91	6.04	6.17	6.30	6.44	6.58	6.72	6.87	7.02
13.4	5.74	5.86	5.99	6.12	6.26	6.39	6.53	6.68	6.82	6.97	7.12
13.6	5.82	5.95	6.08	6.21	6.35	6.49	6.63	6.77	6.92	7.07	7.22
13.8	5.91	6.04	6.17	6.30	6.44	6.58	6.72	6.87	7.02	7.17	7.32
14.0	5.99	6.12	6.26	6.39	6.53	6.67	6.82	6.97	7.12	7.27	7.43

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.40	8.41	8.42	8.43	8.44	8.45	8.46	8.47	8.48	8.49	8.50
14.0	5.99	6.12	6.26	6.39	6.53	6.67	6.82	6.97	7.12	7.27	7.43
14.2	6.08	6.21	6.35	6.48	6.63	6.77	6.92	7.07	7.22	7.37	7.53
14.4	6.17	6.30	6.44	6.58	6.72	6.87	7.01	7.17	7.32	7.48	7.64
14.6	6.25	6.39	6.53	6.67	6.82	6.96	7.11	7.27	7.43	7.58	7.75
14.8	6.34	6.48	6.62	6.77	6.91	7.06	7.22	7.37	7.53	7.69	7.86
15.0	6.43	6.57	6.72	6.86	7.01	7.16	7.32	7.48	7.64	7.80	7.97
15.2	6.53	6.67	6.81	6.96	7.11	7.26	7.42	7.58	7.74	7.91	8.08
15.4	6.62	6.76	6.91	7.06	7.21	7.37	7.53	7.69	7.85	8.02	8.19
15.6	6.71	6.86	7.01	7.16	7.31	7.47	7.63	7.79	7.96	8.13	8.31
15.8	6.81	6.95	7.11	7.26	7.42	7.57	7.74	7.90	8.07	8.25	8.42
16.0	6.90	7.05	7.21	7.36	7.52	7.68	7.85	8.01	8.19	8.36	8.54
16.2	7.00	7.15	7.31	7.46	7.62	7.79	7.95	8.13	8.30	8.48	8.66
16.4	7.10	7.25	7.41	7.57	7.73	7.90	8.07	8.24	8.41	8.59	8.78
16.6	7.20	7.35	7.51	7.67	7.84	8.01	8.18	8.35	8.53	8.71	8.90
16.8	7.30	7.46	7.62	7.78	7.95	8.12	8.29	8.47	8.65	8.83	9.02
17.0	7.40	7.56	7.72	7.89	8.06	8.23	8.40	8.58	8.77	8.95	9.14
17.2	7.50	7.66	7.83	8.00	8.17	8.34	8.52	8.70	8.89	9.07	9.27
17.4	7.61	7.77	7.94	8.11	8.28	8.46	8.64	8.82	9.01	9.20	9.39
17.6	7.71	7.88	8.05	8.22	8.39	8.57	8.75	8.94	9.13	9.32	9.52
17.8	7.82	7.99	8.16	8.33	8.51	8.69	8.87	9.06	9.25	9.45	9.65
18.0	7.93	8.10	8.27	8.45	8.63	8.81	8.99	9.19	9.38	9.58	9.78
18.2	8.04	8.21	8.38	8.56	8.74	8.93	9.12	9.31	9.51	9.71	9.91
18.4	8.15	8.32	8.50	8.68	8.86	9.05	9.24	9.44	9.63	9.84	10.04
18.6	8.26	8.43	8.61	8.79	8.98	9.17	9.36	9.56	9.76	9.97	10.18
18.8	8.37	8.55	8.73	8.91	9.10	9.29	9.49	9.69	9.89	10.10	10.31
19.0	8.48	8.66	8.85	9.03	9.23	9.42	9.62	9.82	10.03	10.24	10.45
19.2	8.60	8.78	8.97	9.16	9.35	9.55	9.75	9.95	10.16	10.37	10.59
19.4	8.71	8.90	9.09	9.28	9.47	9.67	9.88	10.08	10.29	10.51	10.73
19.6	8.83	9.02	9.21	9.40	9.60	9.80	10.01	10.22	10.43	10.65	10.87
19.8	8.95	9.14	9.33	9.53	9.73	9.93	10.14	10.35	10.57	10.79	11.01
20.0	9.07	9.26	9.46	9.66	9.86	10.06	10.27	10.49	10.71	10.93	11.16
20.2	9.19	9.38	9.58	9.78	9.99	10.20	10.41	10.63	10.85	11.07	11.30
20.4	9.31	9.51	9.71	9.91	10.12	10.33	10.55	10.77	10.99	11.22	11.45
20.6	9.44	9.64	9.84	10.04	10.25	10.47	10.69	10.91	11.13	11.36	11.60
20.8	9.56	9.76	9.97	10.18	10.39	10.60	10.83	11.05	11.28	11.51	11.75
21.0	9.69	9.89	10.10	10.31	10.52	10.74	10.97	11.19	11.42	11.66	11.90

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.40	8.41	8.42	8.43	8.44	8.45	8.46	8.47	8.48	8.49	8.50
21.0	9.69	9.89	10.10	10.31	10.52	10.74	10.97	11.19	11.42	11.66	11.90
21.2	9.82	10.02	10.23	10.44	10.66	10.88	11.11	11.34	11.57	11.81	12.05
21.4	9.95	10.15	10.37	10.58	10.80	11.02	11.25	11.48	11.72	11.96	12.21
21.6	10.1	10.3	10.5	10.7	10.9	11.2	11.4	11.6	11.9	12.1	12.4
21.8	10.2	10.4	10.6	10.9	11.1	11.3	11.5	11.8	12.0	12.3	12.5
22.0	10.3	10.6	10.8	11.0	11.2	11.5	11.7	11.9	12.2	12.4	12.7
22.2	10.5	10.7	10.9	11.1	11.4	11.6	11.8	12.1	12.3	12.6	12.8
22.4	10.6	10.8	11.1	11.3	11.5	11.8	12.0	12.2	12.5	12.7	13.0
22.6	10.7	11.0	11.2	11.4	11.7	11.9	12.1	12.4	12.6	12.9	13.2
22.8	10.9	11.1	11.3	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.3
23.0	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.2	13.5
23.2	11.2	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1	13.4	13.7
23.4	11.3	11.5	11.8	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8
23.6	11.5	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0
23.8	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.4	13.6	13.9	14.2
24.0	11.7	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.4
24.2	11.9	12.1	12.4	12.6	12.9	13.2	13.4	13.7	14.0	14.2	14.5
24.4	12.0	12.3	12.5	12.8	13.1	13.3	13.6	13.9	14.1	14.4	14.7
24.6	12.2	12.4	12.7	13.0	13.2	13.5	13.8	14.0	14.3	14.6	14.9
24.8	12.3	12.6	12.9	13.1	13.4	13.6	13.9	14.2	14.5	14.8	15.1
25.0	12.5	12.8	13.0	13.3	13.5	13.8	14.1	14.4	14.7	14.9	15.2
25.2	12.7	12.9	13.2	13.4	13.7	14.0	14.3	14.5	14.8	15.1	15.4
25.4	12.8	13.1	13.3	13.6	13.9	14.2	14.4	14.7	15.0	15.3	15.6
25.6	13.0	13.2	13.5	13.8	14.0	14.3	14.6	14.9	15.2	15.5	15.8
25.8	13.1	13.4	13.7	13.9	14.2	14.5	14.8	15.1	15.4	15.7	16.0
26.0	13.3	13.6	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2
26.2	13.5	13.7	14.0	14.3	14.6	14.9	15.1	15.4	15.7	16.1	16.4
26.4	13.6	13.9	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.2	16.6
26.6	13.8	14.1	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.8
26.8	14.0	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	17.0
27.0	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1
27.2	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.3
27.4	14.5	14.7	15.0	15.3	15.6	15.9	16.3	16.6	16.9	17.2	17.5
27.6	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.8	17.1	17.4	17.8
27.8	14.8	15.1	15.4	15.7	16.0	16.3	16.6	17.0	17.3	17.6	18.0
28.0	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.2	17.5	17.8	18.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.40	8.41	8.42	8.43	8.44	8.45	8.46	8.47	8.48	8.49	8.50
28.0	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.2	17.5	17.8	18.2
28.2	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.4	17.7	18.0	18.4
28.4	15.3	15.6	15.9	16.3	16.6	16.9	17.2	17.6	17.9	18.2	18.6
28.6	15.5	15.8	16.1	16.4	16.8	17.1	17.4	17.8	18.1	18.4	18.8
28.8	15.7	16.0	16.3	16.6	17.0	17.3	17.6	18.0	18.3	18.6	19.0
29.0	15.9	16.2	16.5	16.8	17.2	17.5	17.8	18.2	18.5	18.9	19.2
29.2	16.1	16.4	16.7	17.0	17.4	17.7	18.0	18.4	18.7	19.1	19.4
29.4	16.3	16.6	16.9	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6
29.6	16.4	16.8	17.1	17.4	17.7	18.1	18.4	18.8	19.1	19.5	19.9
29.8	16.6	17.0	17.3	17.6	17.9	18.3	18.6	19.0	19.3	19.7	20.1
30.0	16.8	17.1	17.5	17.8	18.2	18.5	18.8	19.2	19.6	19.9	20.3
30.2	17.0	17.3	17.7	18.0	18.4	18.7	19.1	19.4	19.8	20.1	20.5
30.4	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6	20.0	20.4	20.7
30.6	17.4	17.7	18.1	18.4	18.8	19.1	19.5	19.8	20.2	20.6	21.0
30.8	17.6	17.9	18.3	18.6	19.0	19.3	19.7	20.1	20.4	20.8	21.2
31.0	17.8	18.1	18.5	18.8	19.2	19.5	19.9	20.3	20.7	21.0	21.4
31.2	18.0	18.3	18.7	19.0	19.4	19.8	20.1	20.5	20.9	21.3	21.6
31.4	18.2	18.5	18.9	19.2	19.6	20.0	20.3	20.7	21.1	21.5	21.9
31.6	18.4	18.7	19.1	19.5	19.8	20.2	20.6	20.9	21.3	21.7	22.1
31.8	18.6	19.0	19.3	19.7	20.0	20.4	20.8	21.2	21.6	21.9	22.3
32.0	18.8	19.2	19.5	19.9	20.3	20.6	21.0	21.4	21.8	22.2	22.6
32.2	19.0	19.4	19.7	20.1	20.5	20.9	21.2	21.6	22.0	22.4	22.8
32.4	19.2	19.6	20.0	20.3	20.7	21.1	21.5	21.9	22.2	22.6	23.1
32.6	19.4	19.8	20.2	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.3
32.8	19.6	20.0	20.4	20.8	21.1	21.5	21.9	22.3	22.7	23.1	23.5
33.0	19.9	20.2	20.6	21.0	21.4	21.8	22.1	22.5	23.0	23.4	23.8
33.2	20.1	20.4	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0
33.4	20.3	20.7	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.3
33.6	20.5	20.9	21.3	21.7	22.0	22.4	22.8	23.3	23.7	24.1	24.5
33.8	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.3	24.8
34.0	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.2	24.6	25.0
34.2	21.2	21.6	21.9	22.3	22.7	23.1	23.6	24.0	24.4	24.8	25.3
34.4	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.6	25.1	25.5
34.6	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.5	24.9	25.3	25.8
34.8	21.8	22.2	22.6	23.0	23.4	23.9	24.3	24.7	25.1	25.6	26.0
35.0	22.1	22.5	22.9	23.3	23.7	24.1	24.5	25.0	25.4	25.8	26.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.40	8.41	8.42	8.43	8.44	8.45	8.46	8.47	8.48	8.49	8.50
35.0	22.1	22.5	22.9	23.3	23.7	24.1	24.5	25.0	25.4	25.8	26.3
35.2	22.3	22.7	23.1	23.5	23.9	24.3	24.8	25.2	25.6	26.1	26.5
35.4	22.5	22.9	23.3	23.7	24.2	24.6	25.0	25.5	25.9	26.3	26.8
35.6	22.8	23.2	23.6	24.0	24.4	24.8	25.3	25.7	26.2	26.6	27.0
35.8	23.0	23.4	23.8	24.2	24.7	25.1	25.5	26.0	26.4	26.9	27.3
36.0	23.2	23.6	24.0	24.5	24.9	25.3	25.8	26.2	26.7	27.1	27.6
36.2	23.5	23.9	24.3	24.7	25.1	25.6	26.0	26.5	26.9	27.4	27.8
36.4	23.7	24.1	24.5	25.0	25.4	25.8	26.3	26.7	27.2	27.6	28.1
36.6	23.9	24.3	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9	28.4
36.8	24.2	24.6	25.0	25.5	25.9	26.3	26.8	27.2	27.7	28.2	28.6
37.0	24.4	24.8	25.3	25.7	26.1	26.6	27.0	27.5	28.0	28.4	28.9
37.2	24.6	25.1	25.5	26.0	26.4	26.8	27.3	27.8	28.2	28.7	29.2
37.4	24.9	25.3	25.8	26.2	26.7	27.1	27.6	28.0	28.5	29.0	29.4
37.6	25.1	25.6	26.0	26.5	26.9	27.4	27.8	28.3	28.8	29.2	29.7
37.8	25.4	25.8	26.3	26.7	27.2	27.6	28.1	28.6	29.0	29.5	30.0
38.0	25.6	26.1	26.5	27.0	27.4	27.9	28.3	28.8	29.3	29.8	30.3
38.2	25.9	26.3	26.8	27.2	27.7	28.1	28.6	29.1	29.6	30.0	30.5
38.4	26.1	26.6	27.0	27.5	27.9	28.4	28.9	29.4	29.8	30.3	30.8
38.6	26.4	26.8	27.3	27.7	28.2	28.7	29.1	29.6	30.1	30.6	31.1
38.8	26.6	27.1	27.5	28.0	28.5	28.9	29.4	29.9	30.4	30.9	31.4
39.0	26.9	27.3	27.8	28.3	28.7	29.2	29.7	30.2	30.7	31.1	31.6
39.2	27.1	27.6	28.1	28.5	29.0	29.5	30.0	30.4	30.9	31.4	31.9
39.4	27.4	27.8	28.3	28.8	29.3	29.7	30.2	30.7	31.2	31.7	32.2
39.6	27.6	28.1	28.6	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5
39.8	27.9	28.4	28.8	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8
40.0	28.2	28.6	29.1	29.6	30.1	30.5	31.0	31.5	32.0	32.5	33.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.50	8.51	8.52	8.53	8.54	8.55	8.56	8.57	8.58	8.59	8.60
.0	2.55	2.61	2.66	2.73	2.79	2.85	2.91	2.98	3.05	3.12	3.19
.2	2.59	2.65	2.71	2.77	2.83	2.90	2.96	3.03	3.10	3.17	3.24
.4	2.63	2.69	2.75	2.82	2.88	2.94	3.01	3.08	3.15	3.22	3.29
.6	2.68	2.74	2.80	2.86	2.93	2.99	3.06	3.13	3.20	3.27	3.35
.8	2.72	2.78	2.84	2.91	2.97	3.04	3.11	3.18	3.25	3.33	3.40
1.0	2.76	2.83	2.89	2.96	3.02	3.09	3.16	3.23	3.31	3.38	3.46
1.2	2.81	2.87	2.94	3.01	3.07	3.14	3.21	3.29	3.36	3.43	3.51
1.4	2.86	2.92	2.99	3.05	3.12	3.19	3.27	3.34	3.41	3.49	3.57
1.6	2.90	2.97	3.04	3.10	3.17	3.25	3.32	3.39	3.47	3.55	3.63
1.8	2.95	3.02	3.08	3.15	3.23	3.30	3.37	3.45	3.53	3.60	3.69
2.0	3.00	3.07	3.13	3.21	3.28	3.35	3.43	3.50	3.58	3.66	3.74
2.2	3.05	3.12	3.19	3.26	3.33	3.41	3.48	3.56	3.64	3.72	3.81
2.4	3.10	3.17	3.24	3.31	3.38	3.46	3.54	3.62	3.70	3.78	3.87
2.6	3.15	3.22	3.29	3.36	3.44	3.52	3.59	3.68	3.76	3.84	3.93
2.8	3.20	3.27	3.34	3.42	3.49	3.57	3.65	3.73	3.82	3.90	3.99
3.0	3.25	3.32	3.40	3.47	3.55	3.63	3.71	3.79	3.88	3.97	4.05
3.2	3.30	3.37	3.45	3.53	3.61	3.69	3.77	3.85	3.94	4.03	4.12
3.4	3.35	3.43	3.51	3.58	3.66	3.75	3.83	3.92	4.00	4.09	4.18
3.6	3.41	3.48	3.56	3.64	3.72	3.81	3.89	3.98	4.07	4.16	4.25
3.8	3.46	3.54	3.62	3.70	3.78	3.87	3.95	4.04	4.13	4.22	4.32
4.0	3.52	3.59	3.68	3.76	3.84	3.93	4.02	4.11	4.20	4.29	4.39
4.2	3.57	3.65	3.73	3.82	3.90	3.99	4.08	4.17	4.26	4.36	4.46
4.4	3.63	3.71	3.79	3.88	3.96	4.05	4.14	4.24	4.33	4.43	4.53
4.6	3.69	3.77	3.85	3.94	4.03	4.12	4.21	4.30	4.40	4.50	4.60
4.8	3.74	3.83	3.91	4.00	4.09	4.18	4.27	4.37	4.47	4.57	4.67
5.0	3.80	3.89	3.98	4.06	4.15	4.25	4.34	4.44	4.54	4.64	4.74
5.2	3.86	3.95	4.04	4.13	4.22	4.31	4.41	4.51	4.61	4.71	4.81
5.4	3.92	4.01	4.10	4.19	4.29	4.38	4.48	4.58	4.68	4.78	4.89
5.6	3.98	4.07	4.16	4.26	4.35	4.45	4.55	4.65	4.75	4.86	4.97
5.8	4.05	4.14	4.23	4.32	4.42	4.52	4.62	4.72	4.83	4.93	5.04
6.0	4.11	4.20	4.30	4.39	4.49	4.59	4.69	4.79	4.90	5.01	5.12
6.2	4.17	4.27	4.36	4.46	4.56	4.66	4.76	4.87	4.98	5.09	5.20
6.4	4.24	4.33	4.43	4.53	4.63	4.73	4.84	4.94	5.05	5.16	5.28
6.6	4.30	4.40	4.50	4.60	4.70	4.80	4.91	5.02	5.13	5.24	5.36
6.8	4.37	4.47	4.57	4.67	4.77	4.88	4.99	5.10	5.21	5.32	5.44
7.0	4.44	4.54	4.64	4.74	4.85	4.95	5.06	5.17	5.29	5.41	5.52

TEMP DEG C	PH 8.50	8.51	8.52	8.53	8.54	8.55	8.56	8.57	8.58	8.59	8.60
7.0	4.44	4.54	4.64	4.74	4.85	4.95	5.06	5.17	5.29	5.41	5.52
7.2	4.51	4.61	4.71	4.81	4.92	5.03	5.14	5.25	5.37	5.49	5.61
7.4	4.58	4.68	4.78	4.89	5.00	5.11	5.22	5.33	5.45	5.57	5.69
7.6	4.65	4.75	4.85	4.96	5.07	5.18	5.30	5.42	5.53	5.66	5.78
7.8	4.72	4.82	4.93	5.04	5.15	5.26	5.38	5.50	5.62	5.74	5.87
8.0	4.79	4.90	5.00	5.11	5.23	5.34	5.46	5.58	5.70	5.83	5.96
8.2	4.86	4.97	5.08	5.19	5.31	5.42	5.54	5.66	5.79	5.92	6.05
8.4	4.94	5.05	5.16	5.27	5.39	5.51	5.63	5.75	5.88	6.01	6.14
8.6	5.01	5.12	5.24	5.35	5.47	5.59	5.71	5.84	5.96	6.10	6.23
8.8	5.09	5.20	5.31	5.43	5.55	5.67	5.80	5.92	6.05	6.19	6.32
9.0	5.16	5.28	5.39	5.51	5.63	5.76	5.88	6.01	6.14	6.28	6.42
9.2	5.24	5.36	5.48	5.60	5.72	5.84	5.97	6.10	6.24	6.37	6.51
9.4	5.32	5.44	5.56	5.68	5.80	5.93	6.06	6.19	6.33	6.47	6.61
9.6	5.40	5.52	5.64	5.76	5.89	6.02	6.15	6.29	6.42	6.56	6.70
9.8	5.48	5.60	5.72	5.85	5.98	6.11	6.24	6.38	6.52	6.66	6.80
10.0	5.56	5.69	5.81	5.94	6.07	6.20	6.33	6.47	6.61	6.76	6.90
10.2	5.65	5.77	5.90	6.03	6.16	6.29	6.43	6.57	6.71	6.86	7.01
10.4	5.73	5.86	5.98	6.11	6.25	6.38	6.52	6.67	6.81	6.96	7.11
10.6	5.81	5.94	6.07	6.20	6.34	6.48	6.62	6.76	6.91	7.06	7.21
10.8	5.90	6.03	6.16	6.30	6.43	6.57	6.72	6.86	7.01	7.16	7.32
11.0	5.99	6.12	6.25	6.39	6.53	6.67	6.81	6.96	7.11	7.27	7.42
11.2	6.08	6.21	6.34	6.48	6.62	6.77	6.91	7.06	7.22	7.37	7.53
11.4	6.17	6.30	6.44	6.58	6.72	6.87	7.01	7.17	7.32	7.48	7.64
11.6	6.26	6.39	6.53	6.67	6.82	6.97	7.12	7.27	7.43	7.59	7.75
11.8	6.35	6.49	6.63	6.77	6.92	7.07	7.22	7.38	7.53	7.70	7.86
12.0	6.44	6.58	6.72	6.87	7.02	7.17	7.32	7.48	7.64	7.81	7.97
12.2	6.53	6.68	6.82	6.97	7.12	7.27	7.43	7.59	7.75	7.92	8.09
12.4	6.63	6.77	6.92	7.07	7.22	7.38	7.54	7.70	7.86	8.03	8.20
12.6	6.72	6.87	7.02	7.17	7.32	7.48	7.64	7.81	7.98	8.15	8.32
12.8	6.82	6.97	7.12	7.27	7.43	7.59	7.75	7.92	8.09	8.26	8.44
13.0	6.92	7.07	7.22	7.38	7.54	7.70	7.86	8.03	8.20	8.38	8.56
13.2	7.02	7.17	7.33	7.48	7.64	7.81	7.98	8.15	8.32	8.50	8.68
13.4	7.12	7.27	7.43	7.59	7.75	7.92	8.09	8.26	8.44	8.62	8.80
13.6	7.22	7.38	7.54	7.70	7.86	8.03	8.20	8.38	8.56	8.74	8.92
13.8	7.32	7.48	7.64	7.81	7.97	8.14	8.32	8.50	8.68	8.86	9.05
14.0	7.43	7.59	7.75	7.92	8.09	8.26	8.44	8.62	8.80	8.98	9.17

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.50	8.51	8.52	8.53	8.54	8.55	8.56	8.57	8.58	8.59	8.60
14.0	7.43	7.59	7.75	7.92	8.09	8.26	8.44	8.62	8.80	8.98	9.17
14.2	7.53	7.70	7.86	8.03	8.20	8.38	8.55	8.74	8.92	9.11	9.30
14.4	7.64	7.80	7.97	8.14	8.32	8.49	8.67	8.86	9.05	9.24	9.43
14.6	7.75	7.91	8.08	8.26	8.43	8.61	8.79	8.98	9.17	9.36	9.56
14.8	7.86	8.03	8.20	8.37	8.55	8.73	8.92	9.11	9.30	9.49	9.69
15.0	7.97	8.14	8.31	8.49	8.67	8.85	9.04	9.23	9.43	9.63	9.83
15.2	8.08	8.25	8.43	8.61	8.79	8.98	9.17	9.36	9.56	9.76	9.96
15.4	8.19	8.37	8.54	8.73	8.91	9.10	9.29	9.49	9.69	9.89	10.10
15.6	8.31	8.48	8.66	8.85	9.03	9.23	9.42	9.62	9.82	10.03	10.24
15.8	8.42	8.60	8.78	8.97	9.16	9.35	9.55	9.75	9.96	10.16	10.38
16.0	8.54	8.72	8.90	9.09	9.29	9.48	9.68	9.88	10.09	10.30	10.52
16.2	8.66	8.84	9.03	9.22	9.41	9.61	9.81	10.02	10.23	10.44	10.66
16.4	8.78	8.96	9.15	9.34	9.54	9.74	9.95	10.15	10.37	10.58	10.80
16.6	8.90	9.08	9.28	9.47	9.67	9.87	10.08	10.29	10.51	10.72	10.95
16.8	9.02	9.21	9.40	9.60	9.80	10.01	10.22	10.43	10.65	10.87	11.09
17.0	9.14	9.33	9.53	9.73	9.94	10.14	10.36	10.57	10.79	11.01	11.24
17.2	9.27	9.46	9.66	9.86	10.07	10.28	10.49	10.71	10.94	11.16	11.39
17.4	9.39	9.59	9.79	10.00	10.21	10.42	10.64	10.86	11.08	11.31	11.54
17.6	9.52	9.72	9.92	10.13	10.34	10.56	10.78	11.00	11.23	11.46	11.70
17.8	9.65	9.85	10.06	10.27	10.48	10.70	10.92	11.15	11.38	11.61	11.85
18.0	9.78	9.98	10.19	10.40	10.62	10.84	11.07	11.29	11.53	11.76	12.01
18.2	9.91	10.12	10.33	10.54	10.76	10.99	11.21	11.44	11.68	11.92	12.16
18.4	10.0	10.3	10.5	10.7	10.9	11.1	11.4	11.6	11.8	12.1	12.3
18.6	10.2	10.4	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5
18.8	10.3	10.5	10.7	11.0	11.2	11.4	11.7	11.9	12.1	12.4	12.6
19.0	10.4	10.7	10.9	11.1	11.3	11.6	11.8	12.1	12.3	12.6	12.8
19.2	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0
19.4	10.7	10.9	11.2	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1
19.6	10.9	11.1	11.3	11.6	11.8	12.0	12.3	12.5	12.8	13.0	13.3
19.8	11.0	11.2	11.5	11.7	11.9	12.2	12.4	12.7	13.0	13.2	13.5
20.0	11.2	11.4	11.6	11.9	12.1	12.3	12.6	12.9	13.1	13.4	13.6
20.2	11.3	11.5	11.8	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8
20.4	11.4	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0
20.6	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.4	13.6	13.9	14.2
20.8	11.7	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.4
21.0	11.9	12.1	12.4	12.6	12.9	13.2	13.4	13.7	14.0	14.2	14.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.50	8.51	8.52	8.53	8.54	8.55	8.56	8.57	8.58	8.59	8.60
21.0	11.9	12.1	12.4	12.6	12.9	13.2	13.4	13.7	14.0	14.2	14.5
21.2	12.1	12.3	12.5	12.8	13.1	13.3	13.6	13.9	14.1	14.4	14.7
21.4	12.2	12.5	12.7	13.0	13.2	13.5	13.8	14.0	14.3	14.6	14.9
21.6	12.4	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.5	14.8	15.1
21.8	12.5	12.8	13.0	13.3	13.6	13.8	14.1	14.4	14.7	15.0	15.3
22.0	12.7	12.9	13.2	13.5	13.7	14.0	14.3	14.6	14.9	15.2	15.5
22.2	12.8	13.1	13.4	13.6	13.9	14.2	14.5	14.8	15.0	15.3	15.6
22.4	13.0	13.3	13.5	13.8	14.1	14.4	14.6	14.9	15.2	15.5	15.8
22.6	13.2	13.4	13.7	14.0	14.3	14.5	14.8	15.1	15.4	15.7	16.0
22.8	13.3	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2
23.0	13.5	13.8	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4
23.2	13.7	13.9	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6
23.4	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8
23.6	14.0	14.3	14.6	14.9	15.2	15.4	15.8	16.1	16.4	16.7	17.0
23.8	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.3	16.6	16.9	17.2
24.0	14.4	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.8	17.1	17.4
24.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	17.0	17.3	17.6
24.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.2	17.5	17.8
24.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.4	17.7	18.0
24.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.2	17.6	17.9	18.3
25.0	15.2	15.5	15.8	16.2	16.5	16.8	17.1	17.4	17.8	18.1	18.5
25.2	15.4	15.7	16.0	16.4	16.7	17.0	17.3	17.7	18.0	18.3	18.7
25.4	15.6	15.9	16.2	16.5	16.9	17.2	17.5	17.9	18.2	18.5	18.9
25.6	15.8	16.1	16.4	16.7	17.1	17.4	17.7	18.1	18.4	18.8	19.1
25.8	16.0	16.3	16.6	16.9	17.3	17.6	17.9	18.3	18.6	19.0	19.3
26.0	16.2	16.5	16.8	17.1	17.5	17.8	18.1	18.5	18.8	19.2	19.5
26.2	16.4	16.7	17.0	17.3	17.7	18.0	18.3	18.7	19.0	19.4	19.8
26.4	16.6	16.9	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6	20.0
26.6	16.8	17.1	17.4	17.7	18.1	18.4	18.8	19.1	19.5	19.8	20.2
26.8	17.0	17.3	17.6	17.9	18.3	18.6	19.0	19.3	19.7	20.1	20.4
27.0	17.1	17.5	17.8	18.2	18.5	18.8	19.2	19.6	19.9	20.3	20.7
27.2	17.3	17.7	18.0	18.4	18.7	19.1	19.4	19.8	20.1	20.5	20.9
27.4	17.5	17.9	18.2	18.6	18.9	19.3	19.6	20.0	20.4	20.8	21.1
27.6	17.8	18.1	18.4	18.8	19.1	19.5	19.9	20.2	20.6	21.0	21.4
27.8	18.0	18.3	18.6	19.0	19.4	19.7	20.1	20.5	20.8	21.2	21.6
28.0	18.2	18.5	18.9	19.2	19.6	19.9	20.3	20.7	21.1	21.4	21.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.50	8.51	8.52	8.53	8.54	8.55	8.56	8.57	8.58	8.59	8.60
28.0	18.2	18.5	18.9	19.2	19.6	19.9	20.3	20.7	21.1	21.4	21.8
28.2	18.4	18.7	19.1	19.4	19.8	20.2	20.5	20.9	21.3	21.7	22.1
28.4	18.6	18.9	19.3	19.6	20.0	20.4	20.8	21.1	21.5	21.9	22.3
28.6	18.8	19.1	19.5	19.9	20.2	20.6	21.0	21.4	21.8	22.2	22.6
28.8	19.0	19.4	19.7	20.1	20.5	20.8	21.2	21.6	22.0	22.4	22.8
29.0	19.2	19.6	19.9	20.3	20.7	21.1	21.4	21.8	22.2	22.6	23.0
29.2	19.4	19.8	20.2	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.3
29.4	19.6	20.0	20.4	20.8	21.1	21.5	21.9	22.3	22.7	23.1	23.5
29.6	19.9	20.2	20.6	21.0	21.4	21.8	22.1	22.5	22.9	23.4	23.8
29.8	20.1	20.4	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0
30.0	20.3	20.7	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.9	24.3
30.2	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.5
30.4	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.4	24.8
30.6	21.0	21.3	21.7	22.1	22.5	22.9	23.3	23.8	24.2	24.6	25.0
30.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.9	25.3
31.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.3	24.7	25.1	25.5
31.2	21.6	22.0	22.4	22.8	23.3	23.7	24.1	24.5	24.9	25.4	25.8
31.4	21.9	22.3	22.7	23.1	23.5	23.9	24.3	24.8	25.2	25.6	26.1
31.6	22.1	22.5	22.9	23.3	23.7	24.2	24.6	25.0	25.4	25.9	26.3
31.8	22.3	22.7	23.2	23.6	24.0	24.4	24.8	25.3	25.7	26.1	26.6
32.0	22.6	23.0	23.4	23.8	24.2	24.7	25.1	25.5	26.0	26.4	26.9
32.2	22.8	23.2	23.6	24.1	24.5	24.9	25.3	25.8	26.2	26.7	27.1
32.4	23.1	23.5	23.9	24.3	24.7	25.2	25.6	26.0	26.5	26.9	27.4
32.6	23.3	23.7	24.1	24.6	25.0	25.4	25.9	26.3	26.7	27.2	27.7
32.8	23.5	24.0	24.4	24.8	25.2	25.7	26.1	26.6	27.0	27.5	27.9
33.0	23.8	24.2	24.6	25.1	25.5	25.9	26.4	26.8	27.3	27.7	28.2
33.2	24.0	24.4	24.9	25.3	25.7	26.2	26.6	27.1	27.5	28.0	28.5
33.4	24.3	24.7	25.1	25.6	26.0	26.4	26.9	27.3	27.8	28.3	28.7
33.6	24.5	24.9	25.4	25.8	26.3	26.7	27.2	27.6	28.1	28.5	29.0
33.8	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9	28.3	28.8	29.3
34.0	25.0	25.4	25.9	26.3	26.8	27.2	27.7	28.2	28.6	29.1	29.6
34.2	25.3	25.7	26.1	26.6	27.0	27.5	28.0	28.4	28.9	29.4	29.8
34.4	25.5	26.0	26.4	26.8	27.3	27.8	28.2	28.7	29.2	29.6	30.1
34.6	25.8	26.2	26.7	27.1	27.6	28.0	28.5	29.0	29.4	29.9	30.4
34.8	26.0	26.5	26.9	27.4	27.8	28.3	28.8	29.2	29.7	30.2	30.7
35.0	26.3	26.7	27.2	27.6	28.1	28.6	29.0	29.5	30.0	30.5	31.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.50	8.51	8.52	8.53	8.54	8.55	8.56	8.57	8.58	8.59	8.60
35.0	26.3	26.7	27.2	27.6	28.1	28.6	29.0	29.5	30.0	30.5	31.0
35.2	26.5	27.0	27.4	27.9	28.4	28.8	29.3	29.8	30.3	30.8	31.3
35.4	26.8	27.2	27.7	28.2	28.6	29.1	29.6	30.1	30.6	31.0	31.5
35.6	27.0	27.5	28.0	28.4	28.9	29.4	29.9	30.3	30.8	31.3	31.8
35.8	27.3	27.8	28.2	28.7	29.2	29.7	30.1	30.6	31.1	31.6	32.1
36.0	27.6	28.0	28.5	29.0	29.4	29.9	30.4	30.9	31.4	31.9	32.4
36.2	27.8	28.3	28.8	29.2	29.7	30.2	30.7	31.2	31.7	32.2	32.7
36.4	28.1	28.6	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0
36.6	28.4	28.8	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3
36.8	28.6	29.1	29.6	30.1	30.6	31.0	31.5	32.0	32.5	33.0	33.6
37.0	28.9	29.4	29.9	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8
37.2	29.2	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1
37.4	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4
37.6	29.7	30.2	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.7
37.8	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0
38.0	30.3	30.7	31.2	31.7	32.2	32.7	33.2	33.8	34.3	34.8	35.3
38.2	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.1	34.6	35.1	35.6
38.4	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.9	35.4	35.9
38.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.2	35.7	36.2
38.8	31.4	31.9	32.4	32.9	33.4	33.9	34.4	34.9	35.5	36.0	36.5
39.0	31.6	32.1	32.6	33.2	33.7	34.2	34.7	35.2	35.7	36.3	36.8
39.2	31.9	32.4	32.9	33.4	34.0	34.5	35.0	35.5	36.0	36.6	37.1
39.4	32.2	32.7	33.2	33.7	34.2	34.8	35.3	35.8	36.3	36.9	37.4
39.6	32.5	33.0	33.5	34.0	34.5	35.1	35.6	36.1	36.6	37.2	37.7
39.8	32.8	33.3	33.8	34.3	34.8	35.3	35.9	36.4	36.9	37.5	38.0
40.0	33.0	33.6	34.1	34.6	35.1	35.6	36.2	36.7	37.2	37.8	38.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.60	8.61	8.62	8.63	8.64	8.65	8.66	8.67	8.68	8.69	8.70
.0	3.19	3.26	3.33	3.41	3.48	3.56	3.64	3.72	3.81	3.89	3.98
.2	3.24	3.31	3.39	3.46	3.54	3.62	3.70	3.78	3.87	3.96	4.04
.4	3.29	3.37	3.44	3.52	3.60	3.68	3.76	3.85	3.93	4.02	4.11
.6	3.35	3.42	3.50	3.58	3.66	3.74	3.82	3.91	4.00	4.08	4.18
.8	3.40	3.48	3.56	3.63	3.72	3.80	3.88	3.97	4.06	4.15	4.24
1.0	3.46	3.53	3.61	3.69	3.78	3.86	3.95	4.04	4.13	4.22	4.31
1.2	3.51	3.59	3.67	3.75	3.84	3.92	4.01	4.10	4.19	4.29	4.38
1.4	3.57	3.65	3.73	3.81	3.90	3.99	4.08	4.17	4.26	4.36	4.45
1.6	3.63	3.71	3.79	3.88	3.96	4.05	4.14	4.23	4.33	4.43	4.52
1.8	3.69	3.77	3.85	3.94	4.03	4.12	4.21	4.30	4.40	4.50	4.60
2.0	3.74	3.83	3.91	4.00	4.09	4.18	4.28	4.37	4.47	4.57	4.67
2.2	3.81	3.89	3.98	4.07	4.16	4.25	4.34	4.44	4.54	4.64	4.74
2.4	3.87	3.95	4.04	4.13	4.22	4.32	4.41	4.51	4.61	4.71	4.82
2.6	3.93	4.02	4.11	4.20	4.29	4.39	4.48	4.58	4.69	4.79	4.90
2.8	3.99	4.08	4.17	4.26	4.36	4.46	4.56	4.66	4.76	4.87	4.97
3.0	4.05	4.15	4.24	4.33	4.43	4.53	4.63	4.73	4.84	4.94	5.05
3.2	4.12	4.21	4.30	4.40	4.50	4.60	4.70	4.80	4.91	5.02	5.13
3.4	4.18	4.28	4.37	4.47	4.57	4.67	4.77	4.88	4.99	5.10	5.21
3.6	4.25	4.35	4.44	4.54	4.64	4.74	4.85	4.96	5.07	5.18	5.29
3.8	4.32	4.41	4.51	4.61	4.72	4.82	4.93	5.04	5.15	5.26	5.38
4.0	4.39	4.48	4.58	4.69	4.79	4.90	5.00	5.11	5.23	5.34	5.46
4.2	4.46	4.55	4.66	4.76	4.86	4.97	5.08	5.19	5.31	5.43	5.54
4.4	4.53	4.63	4.73	4.83	4.94	5.05	5.16	5.27	5.39	5.51	5.63
4.6	4.60	4.70	4.80	4.91	5.02	5.13	5.24	5.36	5.47	5.60	5.72
4.8	4.67	4.77	4.88	4.99	5.10	5.21	5.32	5.44	5.56	5.68	5.81
5.0	4.74	4.85	4.95	5.06	5.17	5.29	5.41	5.52	5.65	5.77	5.90
5.2	4.81	4.92	5.03	5.14	5.25	5.37	5.49	5.61	5.73	5.86	5.99
5.4	4.89	5.00	5.11	5.22	5.34	5.45	5.57	5.70	5.82	5.95	6.08
5.6	4.97	5.08	5.19	5.30	5.42	5.54	5.66	5.78	5.91	6.04	6.17
5.8	5.04	5.15	5.27	5.38	5.50	5.62	5.75	5.87	6.00	6.13	6.27
6.0	5.12	5.23	5.35	5.47	5.59	5.71	5.83	5.96	6.09	6.23	6.36
6.2	5.20	5.31	5.43	5.55	5.67	5.80	5.92	6.05	6.19	6.32	6.46
6.4	5.28	5.40	5.51	5.63	5.76	5.88	6.01	6.15	6.28	6.42	6.56
6.6	5.36	5.48	5.60	5.72	5.85	5.97	6.11	6.24	6.37	6.51	6.66
6.8	5.44	5.56	5.68	5.81	5.94	6.07	6.20	6.33	6.47	6.61	6.76
7.0	5.52	5.65	5.77	5.90	6.03	6.16	6.29	6.43	6.57	6.71	6.86

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.60	8.61	8.62	8.63	8.64	8.65	8.66	8.67	8.68	8.69	8.70
7.0	5.52	5.65	5.77	5.90	6.03	6.16	6.29	6.43	6.57	6.71	6.86
7.2	5.61	5.73	5.86	5.99	6.12	6.25	6.39	6.53	6.67	6.81	6.96
7.4	5.69	5.82	5.95	6.08	6.21	6.34	6.48	6.62	6.77	6.91	7.06
7.6	5.78	5.91	6.04	6.17	6.30	6.44	6.58	6.72	6.87	7.02	7.17
7.8	5.87	6.00	6.13	6.26	6.40	6.54	6.68	6.82	6.97	7.12	7.28
8.0	5.96	6.09	6.22	6.35	6.49	6.63	6.78	6.93	7.08	7.23	7.38
8.2	6.05	6.18	6.31	6.45	6.59	6.73	6.88	7.03	7.18	7.34	7.49
8.4	6.14	6.27	6.41	6.55	6.69	6.83	6.98	7.13	7.29	7.44	7.60
8.6	6.23	6.36	6.50	6.64	6.79	6.94	7.09	7.24	7.39	7.55	7.72
8.8	6.32	6.46	6.60	6.74	6.89	7.04	7.19	7.35	7.50	7.67	7.83
9.0	6.42	6.55	6.70	6.84	6.99	7.14	7.30	7.45	7.61	7.78	7.94
9.2	6.51	6.65	6.80	6.94	7.09	7.25	7.40	7.56	7.73	7.89	8.06
9.4	6.61	6.75	6.90	7.05	7.20	7.35	7.51	7.67	7.84	8.01	8.18
9.6	6.70	6.85	7.00	7.15	7.30	7.46	7.62	7.79	7.95	8.12	8.30
9.8	6.80	6.95	7.10	7.26	7.41	7.57	7.73	7.90	8.07	8.24	8.42
10.0	6.90	7.05	7.21	7.36	7.52	7.68	7.85	8.01	8.19	8.36	8.54
10.2	7.01	7.16	7.31	7.47	7.63	7.79	7.96	8.13	8.30	8.48	8.66
10.4	7.11	7.26	7.42	7.58	7.74	7.91	8.08	8.25	8.42	8.60	8.79
10.6	7.21	7.37	7.53	7.69	7.85	8.02	8.19	8.37	8.55	8.73	8.91
10.8	7.32	7.47	7.64	7.80	7.97	8.14	8.31	8.49	8.67	8.85	9.04
11.0	7.42	7.58	7.75	7.91	8.08	8.25	8.43	8.61	8.79	8.98	9.17
11.2	7.53	7.69	7.86	8.03	8.20	8.37	8.55	8.73	8.92	9.11	9.30
11.4	7.64	7.80	7.97	8.14	8.32	8.49	8.67	8.86	9.04	9.24	9.43
11.6	7.75	7.92	8.09	8.26	8.43	8.61	8.80	8.98	9.17	9.37	9.56
11.8	7.86	8.03	8.20	8.38	8.55	8.74	8.92	9.11	9.30	9.50	9.70
12.0	7.97	8.14	8.32	8.50	8.68	8.86	9.05	9.24	9.43	9.63	9.84
12.2	8.09	8.26	8.44	8.62	8.80	8.99	9.18	9.37	9.57	9.77	9.97
12.4	8.20	8.38	8.56	8.74	8.92	9.11	9.31	9.50	9.70	9.91	10.11
12.6	8.32	8.50	8.68	8.86	9.05	9.24	9.44	9.63	9.84	10.04	10.25
12.8	8.44	8.62	8.80	8.99	9.18	9.37	9.57	9.77	9.97	10.18	10.40
13.0	8.56	8.74	8.92	9.11	9.31	9.50	9.70	9.91	10.11	10.32	10.54
13.2	8.68	8.86	9.05	9.24	9.44	9.63	9.84	10.04	10.25	10.47	10.68
13.4	8.80	8.99	9.18	9.37	9.57	9.77	9.97	10.18	10.40	10.61	10.83
13.6	8.92	9.11	9.31	9.50	9.70	9.90	10.11	10.32	10.54	10.76	10.98
13.8	9.05	9.24	9.43	9.63	9.84	10.04	10.25	10.47	10.68	10.90	11.13
14.0	9.17	9.37	9.57	9.77	9.97	10.18	10.39	10.61	10.83	11.05	11.28

TEMP DEG C	PH 8.60	8.61	8.62	8.63	8.64	8.65	8.66	8.67	8.68	8.69	8.70
14.0	9.17	9.37	9.57	9.77	9.97	10.18	10.39	10.61	10.83	11.05	11.28
14.2	9.30	9.50	9.70	9.90	10.11	10.32	10.54	10.75	10.98	11.20	11.44
14.4	9.43	9.63	9.83	10.04	10.25	10.46	10.68	10.90	11.13	11.36	11.59
14.6	9.56	9.76	9.97	10.18	10.39	10.61	10.83	11.05	11.28	11.51	11.75
14.8	9.69	9.90	10.10	10.32	10.53	10.75	10.97	11.20	11.43	11.67	11.91
15.0	9.83	10.03	10.24	10.46	10.67	10.90	11.12	11.35	11.58	11.82	12.07
15.2	9.96	10.17	10.38	10.60	10.82	11.04	11.27	11.50	11.74	11.98	12.23
15.4	10.1	10.3	10.5	10.7	11.0	11.2	11.4	11.7	11.9	12.1	12.4
15.6	10.2	10.4	10.7	10.9	11.1	11.3	11.6	11.8	12.1	12.3	12.6
15.8	10.4	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7
16.0	10.5	10.7	11.0	11.2	11.4	11.6	11.9	12.1	12.4	12.6	12.9
16.2	10.7	10.9	11.1	11.3	11.6	11.8	12.0	12.3	12.5	12.8	13.1
16.4	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.2
16.6	10.9	11.2	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1	13.4
16.8	11.1	11.3	11.6	11.8	12.0	12.3	12.5	12.8	13.0	13.3	13.6
17.0	11.2	11.5	11.7	11.9	12.2	12.4	12.7	13.0	13.2	13.5	13.8
17.2	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1	13.4	13.7	13.9
17.4	11.5	11.8	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1
17.6	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0	14.3
17.8	11.8	12.1	12.3	12.6	12.8	13.1	13.4	13.6	13.9	14.2	14.5
18.0	12.0	12.3	12.5	12.8	13.0	13.3	13.5	13.8	14.1	14.4	14.7
18.2	12.2	12.4	12.7	12.9	13.2	13.4	13.7	14.0	14.3	14.6	14.8
18.4	12.3	12.6	12.8	13.1	13.4	13.6	13.9	14.2	14.5	14.7	15.0
18.6	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.4	14.6	14.9	15.2
18.8	12.6	12.9	13.2	13.4	13.7	14.0	14.3	14.5	14.8	15.1	15.4
19.0	12.8	13.1	13.3	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.6
19.2	13.0	13.2	13.5	13.8	14.0	14.3	14.6	14.9	15.2	15.5	15.8
19.4	13.1	13.4	13.7	13.9	14.2	14.5	14.8	15.1	15.4	15.7	16.0
19.6	13.3	13.6	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2
19.8	13.5	13.7	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4
20.0	13.6	13.9	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6
20.2	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8
20.4	14.0	14.3	14.6	14.9	15.1	15.4	15.7	16.1	16.4	16.7	17.0
20.6	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.3	16.6	16.9	17.2
20.8	14.4	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.8	17.1	17.4
21.0	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	17.0	17.3	17.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.60	8.61	8.62	8.63	8.64	8.65	8.66	8.67	8.68	8.69	8.70
21.0	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	17.0	17.3	17.6
21.2	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.9	17.2	17.5	17.8
21.4	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.1	17.4	17.7	18.1
21.6	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.3	17.6	17.9	18.3
21.8	15.3	15.6	15.9	16.2	16.5	16.8	17.1	17.5	17.8	18.1	18.5
22.0	15.5	15.8	16.1	16.4	16.7	17.0	17.3	17.7	18.0	18.4	18.7
22.2	15.6	15.9	16.3	16.6	16.9	17.2	17.6	17.9	18.2	18.6	18.9
22.4	15.8	16.1	16.5	16.8	17.1	17.4	17.8	18.1	18.4	18.8	19.1
22.6	16.0	16.3	16.7	17.0	17.3	17.6	18.0	18.3	18.7	19.0	19.4
22.8	16.2	16.5	16.9	17.2	17.5	17.8	18.2	18.5	18.9	19.2	19.6
23.0	16.4	16.7	17.1	17.4	17.7	18.1	18.4	18.7	19.1	19.5	19.8
23.2	16.6	16.9	17.3	17.6	17.9	18.3	18.6	19.0	19.3	19.7	20.1
23.4	16.8	17.1	17.5	17.8	18.1	18.5	18.8	19.2	19.5	19.9	20.3
23.6	17.0	17.3	17.7	18.0	18.4	18.7	19.1	19.4	19.8	20.1	20.5
23.8	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6	20.0	20.4	20.7
24.0	17.4	17.8	18.1	18.4	18.8	19.1	19.5	19.9	20.2	20.6	21.0
24.2	17.6	18.0	18.3	18.7	19.0	19.4	19.7	20.1	20.5	20.8	21.2
24.4	17.8	18.2	18.5	18.9	19.2	19.6	19.9	20.3	20.7	21.1	21.5
24.6	18.0	18.4	18.7	19.1	19.4	19.8	20.2	20.5	20.9	21.3	21.7
24.8	18.3	18.6	18.9	19.3	19.7	20.0	20.4	20.8	21.2	21.5	21.9
25.0	18.5	18.8	19.2	19.5	19.9	20.3	20.6	21.0	21.4	21.8	22.2
25.2	18.7	19.0	19.4	19.7	20.1	20.5	20.9	21.2	21.6	22.0	22.4
25.4	18.9	19.2	19.6	20.0	20.3	20.7	21.1	21.5	21.9	22.3	22.7
25.6	19.1	19.5	19.8	20.2	20.6	21.0	21.3	21.7	22.1	22.5	22.9
25.8	19.3	19.7	20.1	20.4	20.8	21.2	21.6	22.0	22.4	22.8	23.2
26.0	19.5	19.9	20.3	20.7	21.0	21.4	21.8	22.2	22.6	23.0	23.4
26.2	19.8	20.1	20.5	20.9	21.3	21.7	22.1	22.4	22.9	23.3	23.7
26.4	20.0	20.4	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9
26.6	20.2	20.6	21.0	21.4	21.7	22.1	22.5	22.9	23.4	23.8	24.2
26.8	20.4	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4
27.0	20.7	21.1	21.4	21.8	22.2	22.6	23.0	23.4	23.9	24.3	24.7
27.2	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.5	25.0
27.4	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.4	24.8	25.2
27.6	21.4	21.8	22.1	22.5	23.0	23.4	23.8	24.2	24.6	25.1	25.5
27.8	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.5	24.9	25.3	25.8
28.0	21.8	22.2	22.6	23.0	23.4	23.9	24.3	24.7	25.1	25.6	26.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.60	8.61	8.62	8.63	8.64	8.65	8.66	8.67	8.68	8.69	8.70
28.0	21.8	22.2	22.6	23.0	23.4	23.9	24.3	24.7	25.1	25.6	26.0
28.2	22.1	22.5	22.9	23.3	23.7	24.1	24.5	25.0	25.4	25.8	26.3
28.4	22.3	22.7	23.1	23.5	23.9	24.4	24.8	25.2	25.7	26.1	26.6
28.6	22.6	23.0	23.4	23.8	24.2	24.6	25.1	25.5	25.9	26.4	26.8
28.8	22.8	23.2	23.6	24.0	24.5	24.9	25.3	25.8	26.2	26.6	27.1
29.0	23.0	23.4	23.9	24.3	24.7	25.1	25.6	26.0	26.5	26.9	27.4
29.2	23.3	23.7	24.1	24.5	25.0	25.4	25.8	26.3	26.7	27.2	27.6
29.4	23.5	23.9	24.4	24.8	25.2	25.7	26.1	26.5	27.0	27.5	27.9
29.6	23.8	24.2	24.6	25.0	25.5	25.9	26.4	26.8	27.3	27.7	28.2
29.8	24.0	24.4	24.9	25.3	25.7	26.2	26.6	27.1	27.5	28.0	28.5
30.0	24.3	24.7	25.1	25.6	26.0	26.5	26.9	27.4	27.8	28.3	28.8
30.2	24.5	25.0	25.4	25.8	26.3	26.7	27.2	27.6	28.1	28.6	29.0
30.4	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9	28.4	28.8	29.3
30.6	25.0	25.5	25.9	26.4	26.8	27.3	27.7	28.2	28.6	29.1	29.6
30.8	25.3	25.7	26.2	26.6	27.1	27.5	28.0	28.5	28.9	29.4	29.9
31.0	25.5	26.0	26.4	26.9	27.3	27.8	28.3	28.7	29.2	29.7	30.2
31.2	25.8	26.3	26.7	27.2	27.6	28.1	28.5	29.0	29.5	30.0	30.5
31.4	26.1	26.5	27.0	27.4	27.9	28.3	28.8	29.3	29.8	30.3	30.7
31.6	26.3	26.8	27.2	27.7	28.2	28.6	29.1	29.6	30.1	30.5	31.0
31.8	26.6	27.0	27.5	28.0	28.4	28.9	29.4	29.9	30.3	30.8	31.3
32.0	26.9	27.3	27.8	28.2	28.7	29.2	29.7	30.1	30.6	31.1	31.6
32.2	27.1	27.6	28.0	28.5	29.0	29.5	29.9	30.4	30.9	31.4	31.9
32.4	27.4	27.8	28.3	28.8	29.3	29.7	30.2	30.7	31.2	31.7	32.2
32.6	27.7	28.1	28.6	29.1	29.5	30.0	30.5	31.0	31.5	32.0	32.5
32.8	27.9	28.4	28.9	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8
33.0	28.2	28.7	29.1	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1
33.2	28.5	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4
33.4	28.7	29.2	29.7	30.2	30.7	31.2	31.7	32.2	32.7	33.2	33.7
33.6	29.0	29.5	30.0	30.5	31.0	31.4	31.9	32.4	33.0	33.5	34.0
33.8	29.3	29.8	30.3	30.7	31.2	31.7	32.2	32.7	33.2	33.8	34.3
34.0	29.6	30.1	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.1	34.6
34.2	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.4	34.9
34.4	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.7	35.2
34.6	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	35.0	35.5
34.8	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.7	35.3	35.8
35.0	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.6	36.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.60	8.61	8.62	8.63	8.64	8.65	8.66	8.67	8.68	8.69	8.70
35.0	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.6	36.1
35.2	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.8	35.3	35.9	36.4
35.4	31.5	32.0	32.5	33.0	33.6	34.1	34.6	35.1	35.6	36.2	36.7
35.6	31.8	32.3	32.8	33.3	33.9	34.4	34.9	35.4	35.9	36.5	37.0
35.8	32.1	32.6	33.1	33.6	34.2	34.7	35.2	35.7	36.3	36.8	37.3
36.0	32.4	32.9	33.4	33.9	34.4	35.0	35.5	36.0	36.6	37.1	37.6
36.2	32.7	33.2	33.7	34.2	34.7	35.3	35.8	36.3	36.9	37.4	37.9
36.4	33.0	33.5	34.0	34.5	35.0	35.6	36.1	36.6	37.2	37.7	38.2
36.6	33.3	33.8	34.3	34.8	35.3	35.9	36.4	36.9	37.5	38.0	38.6
36.8	33.6	34.1	34.6	35.1	35.6	36.2	36.7	37.2	37.8	38.3	38.9
37.0	33.8	34.4	34.9	35.4	35.9	36.5	37.0	37.5	38.1	38.6	39.2
37.2	34.1	34.7	35.2	35.7	36.2	36.8	37.3	37.9	38.4	38.9	39.5
37.4	34.4	35.0	35.5	36.0	36.5	37.1	37.6	38.2	38.7	39.3	39.8
37.6	34.7	35.3	35.8	36.3	36.8	37.4	37.9	38.5	39.0	39.6	40.1
37.8	35.0	35.6	36.1	36.6	37.2	37.7	38.2	38.8	39.3	39.9	40.4
38.0	35.3	35.9	36.4	36.9	37.5	38.0	38.5	39.1	39.6	40.2	40.7
38.2	35.6	36.1	36.7	37.2	37.8	38.3	38.8	39.4	39.9	40.5	41.1
38.4	35.9	36.4	37.0	37.5	38.1	38.6	39.2	39.7	40.3	40.8	41.4
38.6	36.2	36.7	37.3	37.8	38.4	38.9	39.5	40.0	40.6	41.1	41.7
38.8	36.5	37.0	37.6	38.1	38.7	39.2	39.8	40.3	40.9	41.4	42.0
39.0	36.8	37.4	37.9	38.4	39.0	39.5	40.1	40.6	41.2	41.8	42.3
39.2	37.1	37.7	38.2	38.7	39.3	39.8	40.4	40.9	41.5	42.1	42.6
39.4	37.4	38.0	38.5	39.0	39.6	40.1	40.7	41.3	41.8	42.4	42.9
39.6	37.7	38.3	38.8	39.4	39.9	40.5	41.0	41.6	42.1	42.7	43.3
39.8	38.0	38.6	39.1	39.7	40.2	40.8	41.3	41.9	42.4	43.0	43.6
40.0	38.3	38.9	39.4	40.0	40.5	41.1	41.6	42.2	42.8	43.3	43.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.70	8.71	8.72	8.73	8.74	8.75	8.76	8.77	8.78	8.79	8.80
.0	3.98	4.07	4.16	4.25	4.35	4.44	4.54	4.64	4.75	4.85	4.96
.2	4.04	4.13	4.23	4.32	4.42	4.51	4.62	4.72	4.82	4.93	5.04
.4	4.11	4.20	4.29	4.39	4.49	4.59	4.69	4.79	4.90	5.01	5.12
.6	4.18	4.27	4.36	4.46	4.56	4.66	4.77	4.87	4.98	5.09	5.20
.8	4.24	4.34	4.43	4.53	4.63	4.74	4.84	4.95	5.06	5.17	5.28
1.0	4.31	4.41	4.51	4.61	4.71	4.81	4.92	5.03	5.14	5.25	5.37
1.2	4.38	4.48	4.58	4.68	4.78	4.89	5.00	5.11	5.22	5.34	5.45
1.4	4.45	4.55	4.65	4.76	4.86	4.97	5.08	5.19	5.30	5.42	5.54
1.6	4.52	4.62	4.73	4.83	4.94	5.05	5.16	5.27	5.39	5.51	5.63
1.8	4.60	4.70	4.80	4.91	5.02	5.13	5.24	5.36	5.47	5.59	5.72
2.0	4.67	4.77	4.88	4.99	5.10	5.21	5.32	5.44	5.56	5.68	5.81
2.2	4.74	4.85	4.96	5.07	5.18	5.29	5.41	5.53	5.65	5.77	5.90
2.4	4.82	4.93	5.03	5.15	5.26	5.38	5.49	5.61	5.74	5.86	5.99
2.6	4.90	5.00	5.11	5.23	5.34	5.46	5.58	5.70	5.83	5.96	6.09
2.8	4.97	5.08	5.20	5.31	5.43	5.55	5.67	5.79	5.92	6.05	6.18
3.0	5.05	5.16	5.28	5.39	5.51	5.63	5.76	5.88	6.01	6.14	6.28
3.2	5.13	5.24	5.36	5.48	5.60	5.72	5.85	5.97	6.11	6.24	6.37
3.4	5.21	5.33	5.44	5.56	5.69	5.81	5.94	6.07	6.20	6.34	6.47
3.6	5.29	5.41	5.53	5.65	5.77	5.90	6.03	6.16	6.30	6.43	6.57
3.8	5.38	5.49	5.62	5.74	5.86	5.99	6.12	6.26	6.39	6.53	6.68
4.0	5.46	5.58	5.70	5.83	5.96	6.09	6.22	6.35	6.49	6.63	6.78
4.2	5.54	5.67	5.79	5.92	6.05	6.18	6.31	6.45	6.59	6.74	6.88
4.4	5.63	5.75	5.88	6.01	6.14	6.27	6.41	6.55	6.69	6.84	6.99
4.6	5.72	5.84	5.97	6.10	6.24	6.37	6.51	6.65	6.80	6.94	7.09
4.8	5.81	5.93	6.06	6.20	6.33	6.47	6.61	6.75	6.90	7.05	7.20
5.0	5.90	6.03	6.16	6.29	6.43	6.57	6.71	6.86	7.01	7.16	7.31
5.2	5.99	6.12	6.25	6.39	6.53	6.67	6.81	6.96	7.11	7.27	7.42
5.4	6.08	6.21	6.35	6.49	6.63	6.77	6.92	7.07	7.22	7.38	7.53
5.6	6.17	6.31	6.44	6.58	6.73	6.87	7.02	7.17	7.33	7.49	7.65
5.8	6.27	6.40	6.54	6.68	6.83	6.98	7.13	7.28	7.44	7.60	7.76
6.0	6.36	6.50	6.64	6.79	6.93	7.08	7.24	7.39	7.55	7.71	7.88
6.2	6.46	6.60	6.74	6.89	7.04	7.19	7.34	7.50	7.66	7.83	8.00
6.4	6.56	6.70	6.84	6.99	7.14	7.30	7.45	7.62	7.78	7.95	8.12
6.6	6.66	6.80	6.95	7.10	7.25	7.41	7.57	7.73	7.89	8.06	8.24
6.8	6.76	6.90	7.05	7.20	7.36	7.52	7.68	7.84	8.01	8.18	8.36
7.0	6.86	7.01	7.16	7.31	7.47	7.63	7.79	7.96	8.13	8.30	8.48

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.70	8.71	8.72	8.73	8.74	8.75	8.76	8.77	8.78	8.79	8.80
7.0	6.86	7.01	7.16	7.31	7.47	7.63	7.79	7.96	8.13	8.30	8.48
7.2	6.96	7.11	7.26	7.42	7.58	7.74	7.91	8.08	8.25	8.43	8.61
7.4	7.06	7.22	7.37	7.53	7.69	7.86	8.03	8.20	8.37	8.55	8.73
7.6	7.17	7.32	7.48	7.64	7.81	7.97	8.15	8.32	8.50	8.68	8.86
7.8	7.28	7.43	7.59	7.76	7.92	8.09	8.27	8.44	8.62	8.80	8.99
8.0	7.38	7.54	7.71	7.87	8.04	8.21	8.39	8.57	8.75	8.93	9.12
8.2	7.49	7.65	7.82	7.99	8.16	8.33	8.51	8.69	8.87	9.06	9.25
8.4	7.60	7.77	7.93	8.10	8.28	8.45	8.63	8.82	9.00	9.19	9.39
8.6	7.72	7.88	8.05	8.22	8.40	8.58	8.76	8.95	9.13	9.33	9.52
8.8	7.83	8.00	8.17	8.34	8.52	8.70	8.89	9.07	9.27	9.46	9.66
9.0	7.94	8.11	8.29	8.46	8.64	8.83	9.02	9.21	9.40	9.60	9.80
9.2	8.06	8.23	8.41	8.59	8.77	8.96	9.15	9.34	9.54	9.74	9.94
9.4	8.18	8.35	8.53	8.71	8.90	9.09	9.28	9.47	9.67	9.88	10.08
9.6	8.30	8.47	8.65	8.84	9.03	9.22	9.41	9.61	9.81	10.02	10.23
9.8	8.42	8.60	8.78	8.97	9.15	9.35	9.55	9.75	9.95	10.16	10.37
10.0	8.54	8.72	8.91	9.09	9.29	9.48	9.68	9.88	10.09	10.30	10.52
10.2	8.66	8.85	9.03	9.22	9.42	9.62	9.82	10.03	10.23	10.45	10.67
10.4	8.79	8.97	9.16	9.36	9.55	9.75	9.96	10.17	10.38	10.60	10.82
10.6	8.91	9.10	9.29	9.49	9.69	9.89	10.10	10.31	10.53	10.74	10.97
10.8	9.04	9.23	9.43	9.62	9.83	10.03	10.24	10.46	10.67	10.89	11.12
11.0	9.17	9.36	9.56	9.76	9.97	10.17	10.39	10.60	10.82	11.05	11.28
11.2	9.30	9.50	9.69	9.90	10.11	10.32	10.53	10.75	10.97	11.20	11.43
11.4	9.43	9.63	9.83	10.04	10.25	10.46	10.68	10.90	11.13	11.36	11.59
11.6	9.56	9.77	9.97	10.18	10.39	10.61	10.83	11.05	11.28	11.51	11.75
11.8	9.70	9.90	10.11	10.32	10.54	10.76	10.98	11.21	11.44	11.67	11.91
12.0	9.84	10.04	10.25	10.47	10.68	10.90	11.13	11.36	11.59	11.83	12.07
12.2	9.97	10.18	10.39	10.61	10.83	11.06	11.28	11.52	11.75	11.99	12.24
12.4	10.1	10.3	10.5	10.8	11.0	11.2	11.4	11.7	11.9	12.2	12.4
12.6	10.3	10.5	10.7	10.9	11.1	11.4	11.6	11.8	12.1	12.3	12.6
12.8	10.4	10.6	10.8	11.1	11.3	11.5	11.8	12.0	12.2	12.5	12.7
13.0	10.5	10.8	11.0	11.2	11.4	11.7	11.9	12.2	12.4	12.7	12.9
13.2	10.7	10.9	11.1	11.4	11.6	11.8	12.1	12.3	12.6	12.8	13.1
13.4	10.8	11.1	11.3	11.5	11.8	12.0	12.2	12.5	12.7	13.0	13.3
13.6	11.0	11.2	11.4	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.4
13.8	11.1	11.4	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.4	13.6
14.0	11.3	11.5	11.8	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.70	8.71	8.72	8.73	8.74	8.75	8.76	8.77	8.78	8.79	8.80
14.0	11.3	11.5	11.8	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8
14.2	11.4	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.4	13.7	14.0
14.4	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.3	13.6	13.9	14.2
14.6	11.7	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.4
14.8	11.9	12.1	12.4	12.6	12.9	13.2	13.4	13.7	14.0	14.3	14.5
15.0	12.1	12.3	12.6	12.8	13.1	13.3	13.6	13.9	14.2	14.4	14.7
15.2	12.2	12.5	12.7	13.0	13.2	13.5	13.8	14.1	14.3	14.6	14.9
15.4	12.4	12.6	12.9	13.2	13.4	13.7	14.0	14.2	14.5	14.8	15.1
15.6	12.6	12.8	13.1	13.3	13.6	13.9	14.2	14.4	14.7	15.0	15.3
15.8	12.7	13.0	13.2	13.5	13.8	14.1	14.3	14.6	14.9	15.2	15.5
16.0	12.9	13.1	13.4	13.7	14.0	14.2	14.5	14.8	15.1	15.4	15.7
16.2	13.1	13.3	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.6	15.9
16.4	13.2	13.5	13.8	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1
16.6	13.4	13.7	13.9	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3
16.8	13.6	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5
17.0	13.8	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7
17.2	13.9	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9
17.4	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1
17.6	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.3
17.8	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.2	17.6
18.0	14.7	14.9	15.2	15.5	15.8	16.2	16.5	16.8	17.1	17.4	17.8
18.2	14.8	15.1	15.4	15.7	16.0	16.4	16.7	17.0	17.3	17.7	18.0
18.4	15.0	15.3	15.6	15.9	16.2	16.6	16.9	17.2	17.5	17.9	18.2
18.6	15.2	15.5	15.8	16.1	16.4	16.8	17.1	17.4	17.8	18.1	18.4
18.8	15.4	15.7	16.0	16.3	16.7	17.0	17.3	17.6	18.0	18.3	18.7
19.0	15.6	15.9	16.2	16.5	16.9	17.2	17.5	17.8	18.2	18.5	18.9
19.2	15.8	16.1	16.4	16.7	17.1	17.4	17.7	18.1	18.4	18.8	19.1
19.4	16.0	16.3	16.6	16.9	17.3	17.6	17.9	18.3	18.6	19.0	19.3
19.6	16.2	16.5	16.8	17.2	17.5	17.8	18.2	18.5	18.9	19.2	19.6
19.8	16.4	16.7	17.0	17.4	17.7	18.0	18.4	18.7	19.1	19.4	19.8
20.0	16.6	16.9	17.2	17.6	17.9	18.3	18.6	19.0	19.3	19.7	20.0
20.2	16.8	17.1	17.5	17.8	18.1	18.5	18.8	19.2	19.5	19.9	20.3
20.4	17.0	17.3	17.7	18.0	18.3	18.7	19.0	19.4	19.8	20.1	20.5
20.6	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6	20.0	20.4	20.7
20.8	17.4	17.8	18.1	18.4	18.8	19.1	19.5	19.9	20.2	20.6	21.0
21.0	17.6	18.0	18.3	18.7	19.0	19.4	19.7	20.1	20.5	20.8	21.2

TEMP DEG C	PH 8.70	8.71	8.72	8.73	8.74	8.75	8.76	8.77	8.78	8.79	8.80
21.0	17.6	18.0	18.3	18.7	19.0	19.4	19.7	20.1	20.5	20.8	21.2
21.2	17.8	18.2	18.5	18.9	19.2	19.6	20.0	20.3	20.7	21.1	21.5
21.4	18.1	18.4	18.7	19.1	19.5	19.8	20.2	20.6	20.9	21.3	21.7
21.6	18.3	18.6	19.0	19.3	19.7	20.1	20.4	20.8	21.2	21.6	22.0
21.8	18.5	18.8	19.2	19.6	19.9	20.3	20.7	21.0	21.4	21.8	22.2
22.0	18.7	19.1	19.4	19.8	20.1	20.5	20.9	21.3	21.7	22.1	22.5
22.2	18.9	19.3	19.6	20.0	20.4	20.8	21.1	21.5	21.9	22.3	22.7
22.4	19.1	19.5	19.9	20.2	20.6	21.0	21.4	21.8	22.2	22.6	23.0
22.6	19.4	19.7	20.1	20.5	20.9	21.2	21.6	22.0	22.4	22.8	23.2
22.8	19.6	20.0	20.3	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5
23.0	19.8	20.2	20.6	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7
23.2	20.1	20.4	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0
23.4	20.3	20.7	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.3
23.6	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.5
23.8	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.4	24.8
24.0	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.6	25.1
24.2	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.5	24.9	25.3
24.4	21.5	21.8	22.2	22.6	23.1	23.5	23.9	24.3	24.7	25.2	25.6
24.6	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.6	25.0	25.4	25.9
24.8	21.9	22.3	22.7	23.1	23.6	24.0	24.4	24.8	25.3	25.7	26.1
25.0	22.2	22.6	23.0	23.4	23.8	24.2	24.7	25.1	25.5	26.0	26.4
25.2	22.4	22.8	23.2	23.7	24.1	24.5	24.9	25.4	25.8	26.2	26.7
25.4	22.7	23.1	23.5	23.9	24.3	24.8	25.2	25.6	26.1	26.5	27.0
25.6	22.9	23.3	23.7	24.2	24.6	25.0	25.5	25.9	26.3	26.8	27.2
25.8	23.2	23.6	24.0	24.4	24.9	25.3	25.7	26.2	26.6	27.1	27.5
26.0	23.4	23.8	24.3	24.7	25.1	25.6	26.0	26.4	26.9	27.3	27.8
26.2	23.7	24.1	24.5	24.9	25.4	25.8	26.3	26.7	27.2	27.6	28.1
26.4	23.9	24.4	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9	28.4
26.6	24.2	24.6	25.0	25.5	25.9	26.4	26.8	27.3	27.7	28.2	28.7
26.8	24.4	24.9	25.3	25.7	26.2	26.6	27.1	27.5	28.0	28.5	28.9
27.0	24.7	25.1	25.6	26.0	26.5	26.9	27.4	27.8	28.3	28.8	29.2
27.2	25.0	25.4	25.8	26.3	26.7	27.2	27.6	28.1	28.6	29.0	29.5
27.4	25.2	25.7	26.1	26.5	27.0	27.5	27.9	28.4	28.9	29.3	29.8
27.6	25.5	25.9	26.4	26.8	27.3	27.7	28.2	28.7	29.1	29.6	30.1
27.8	25.8	26.2	26.6	27.1	27.6	28.0	28.5	29.0	29.4	29.9	30.4
28.0	26.0	26.5	26.9	27.4	27.8	28.3	28.8	29.2	29.7	30.2	30.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.70	8.71	8.72	8.73	8.74	8.75	8.76	8.77	8.78	8.79	8.80
28.0	26.0	26.5	26.9	27.4	27.8	28.3	28.8	29.2	29.7	30.2	30.7
28.2	26.3	26.7	27.2	27.6	28.1	28.6	29.0	29.5	30.0	30.5	31.0
28.4	26.6	27.0	27.5	27.9	28.4	28.9	29.3	29.8	30.3	30.8	31.3
28.6	26.8	27.3	27.7	28.2	28.7	29.1	29.6	30.1	30.6	31.1	31.6
28.8	27.1	27.6	28.0	28.5	29.0	29.4	29.9	30.4	30.9	31.4	31.9
29.0	27.4	27.8	28.3	28.8	29.2	29.7	30.2	30.7	31.2	31.7	32.2
29.2	27.6	28.1	28.6	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5
29.4	27.9	28.4	28.9	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8
29.6	28.2	28.7	29.1	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1
29.8	28.5	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4
30.0	28.8	29.2	29.7	30.2	30.7	31.2	31.7	32.2	32.7	33.2	33.7
30.2	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0
30.4	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3
30.6	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6
30.8	29.9	30.4	30.9	31.3	31.8	32.3	32.9	33.4	33.9	34.4	34.9
31.0	30.2	30.7	31.1	31.6	32.1	32.6	33.2	33.7	34.2	34.7	35.2
31.2	30.5	30.9	31.4	31.9	32.4	32.9	33.5	34.0	34.5	35.0	35.5
31.4	30.7	31.2	31.7	32.2	32.7	33.2	33.8	34.3	34.8	35.3	35.8
31.6	31.0	31.5	32.0	32.5	33.0	33.5	34.1	34.6	35.1	35.6	36.2
31.8	31.3	31.8	32.3	32.8	33.3	33.8	34.4	34.9	35.4	35.9	36.5
32.0	31.6	32.1	32.6	33.1	33.6	34.2	34.7	35.2	35.7	36.3	36.8
32.2	31.9	32.4	32.9	33.4	33.9	34.5	35.0	35.5	36.0	36.6	37.1
32.4	32.2	32.7	33.2	33.7	34.2	34.8	35.3	35.8	36.3	36.9	37.4
32.6	32.5	33.0	33.5	34.0	34.5	35.1	35.6	36.1	36.7	37.2	37.7
32.8	32.8	33.3	33.8	34.3	34.8	35.4	35.9	36.4	37.0	37.5	38.0
33.0	33.1	33.6	34.1	34.6	35.2	35.7	36.2	36.7	37.3	37.8	38.4
33.2	33.4	33.9	34.4	34.9	35.5	36.0	36.5	37.1	37.6	38.1	38.7
33.4	33.7	34.2	34.7	35.2	35.8	36.3	36.8	37.4	37.9	38.5	39.0
33.6	34.0	34.5	35.0	35.5	36.1	36.6	37.1	37.7	38.2	38.8	39.3
33.8	34.3	34.8	35.3	35.9	36.4	36.9	37.5	38.0	38.5	39.1	39.6
34.0	34.6	35.1	35.6	36.2	36.7	37.2	37.8	38.3	38.9	39.4	40.0
34.2	34.9	35.4	35.9	36.5	37.0	37.5	38.1	38.6	39.2	39.7	40.3
34.4	35.2	35.7	36.2	36.8	37.3	37.9	38.4	38.9	39.5	40.0	40.6
34.6	35.5	36.0	36.5	37.1	37.6	38.2	38.7	39.3	39.8	40.4	40.9
34.8	35.8	36.3	36.9	37.4	37.9	38.5	39.0	39.6	40.1	40.7	41.2
35.0	36.1	36.6	37.2	37.7	38.2	38.8	39.3	39.9	40.4	41.0	41.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.70	8.71	8.72	8.73	8.74	8.75	8.76	8.77	8.78	8.79	8.80
35.0	36.1	36.6	37.2	37.7	38.2	38.8	39.3	39.9	40.4	41.0	41.6
35.2	36.4	36.9	37.5	38.0	38.6	39.1	39.7	40.2	40.8	41.3	41.9
35.4	36.7	37.2	37.8	38.3	38.9	39.4	40.0	40.5	41.1	41.6	42.2
35.6	37.0	37.6	38.1	38.6	39.2	39.7	40.3	40.8	41.4	42.0	42.5
35.8	37.3	37.9	38.4	39.0	39.5	40.1	40.6	41.2	41.7	42.3	42.8
36.0	37.6	38.2	38.7	39.3	39.8	40.4	40.9	41.5	42.0	42.6	43.2
36.2	37.9	38.5	39.0	39.6	40.1	40.7	41.2	41.8	42.4	42.9	43.5
36.4	38.2	38.8	39.3	39.9	40.4	41.0	41.6	42.1	42.7	43.2	43.8
36.6	38.6	39.1	39.7	40.2	40.8	41.3	41.9	42.4	43.0	43.6	44.1
36.8	38.9	39.4	40.0	40.5	41.1	41.6	42.2	42.8	43.3	43.9	44.5
37.0	39.2	39.7	40.3	40.8	41.4	42.0	42.5	43.1	43.6	44.2	44.8
37.2	39.5	40.0	40.6	41.2	41.7	42.3	42.8	43.4	44.0	44.5	45.1
37.4	39.8	40.4	40.9	41.5	42.0	42.6	43.2	43.7	44.3	44.9	45.4
37.6	40.1	40.7	41.2	41.8	42.3	42.9	43.5	44.0	44.6	45.2	45.8
37.8	40.4	41.0	41.5	42.1	42.7	43.2	43.8	44.4	44.9	45.5	46.1
38.0	40.7	41.3	41.9	42.4	43.0	43.5	44.1	44.7	45.3	45.8	46.4
38.2	41.1	41.6	42.2	42.7	43.3	43.9	44.4	45.0	45.6	46.1	46.7
38.4	41.4	41.9	42.5	43.1	43.6	44.2	44.8	45.3	45.9	46.5	47.0
38.6	41.7	42.2	42.8	43.4	43.9	44.5	45.1	45.6	46.2	46.8	47.4
38.8	42.0	42.6	43.1	43.7	44.3	44.8	45.4	46.0	46.5	47.1	47.7
39.0	42.3	42.9	43.4	44.0	44.6	45.1	45.7	46.3	46.9	47.4	48.0
39.2	42.6	43.2	43.8	44.3	44.9	45.5	46.0	46.6	47.2	47.8	48.3
39.4	42.9	43.5	44.1	44.6	45.2	45.8	46.4	46.9	47.5	48.1	48.7
39.6	43.3	43.8	44.4	45.0	45.5	46.1	46.7	47.2	47.8	48.4	49.0
39.8	43.6	44.1	44.7	45.3	45.8	46.4	47.0	47.6	48.1	48.7	49.3
40.0	43.9	44.5	45.0	45.6	46.2	46.7	47.3	47.9	48.5	49.0	49.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.80	8.81	8.82	8.83	8.84	8.85	8.86	8.87	8.88	8.89	8.90
.0	4.96	5.07	5.18	5.29	5.41	5.53	5.65	5.78	5.90	6.03	6.16
.2	5.04	5.15	5.26	5.38	5.50	5.62	5.74	5.87	6.00	6.13	6.26
.4	5.12	5.23	5.35	5.47	5.59	5.71	5.83	5.96	6.09	6.22	6.36
.6	5.20	5.32	5.43	5.55	5.67	5.80	5.93	6.06	6.19	6.32	6.46
.8	5.28	5.40	5.52	5.64	5.76	5.89	6.02	6.15	6.29	6.42	6.56
1.0	5.37	5.49	5.61	5.73	5.86	5.98	6.12	6.25	6.39	6.52	6.67
1.2	5.45	5.57	5.70	5.82	5.95	6.08	6.21	6.35	6.49	6.63	6.77
1.4	5.54	5.66	5.79	5.91	6.04	6.18	6.31	6.45	6.59	6.73	6.88
1.6	5.63	5.75	5.88	6.01	6.14	6.27	6.41	6.55	6.69	6.84	6.98
1.8	5.72	5.84	5.97	6.10	6.24	6.37	6.51	6.65	6.80	6.94	7.09
2.0	5.81	5.94	6.07	6.20	6.33	6.47	6.61	6.76	6.90	7.05	7.20
2.2	5.90	6.03	6.16	6.29	6.43	6.57	6.71	6.86	7.01	7.16	7.32
2.4	5.99	6.12	6.26	6.39	6.53	6.67	6.82	6.97	7.12	7.27	7.43
2.6	6.09	6.22	6.35	6.49	6.63	6.78	6.93	7.07	7.23	7.38	7.54
2.8	6.18	6.32	6.45	6.59	6.74	6.88	7.03	7.18	7.34	7.50	7.66
3.0	6.28	6.41	6.55	6.70	6.84	6.99	7.14	7.29	7.45	7.61	7.78
3.2	6.37	6.51	6.66	6.80	6.95	7.10	7.25	7.41	7.57	7.73	7.90
3.4	6.47	6.61	6.76	6.90	7.05	7.21	7.36	7.52	7.68	7.85	8.02
3.6	6.57	6.72	6.86	7.01	7.16	7.32	7.47	7.64	7.80	7.97	8.14
3.8	6.68	6.82	6.97	7.12	7.27	7.43	7.59	7.75	7.92	8.09	8.26
4.0	6.78	6.92	7.07	7.23	7.38	7.54	7.70	7.87	8.04	8.21	8.39
4.2	6.88	7.03	7.18	7.34	7.50	7.66	7.82	7.99	8.16	8.33	8.51
4.4	6.99	7.14	7.29	7.45	7.61	7.77	7.94	8.11	8.28	8.46	8.64
4.6	7.09	7.25	7.40	7.56	7.73	7.89	8.06	8.23	8.41	8.59	8.77
4.8	7.20	7.36	7.52	7.68	7.84	8.01	8.18	8.36	8.53	8.72	8.90
5.0	7.31	7.47	7.63	7.79	7.96	8.13	8.30	8.48	8.66	8.85	9.03
5.2	7.42	7.58	7.74	7.91	8.08	8.25	8.43	8.61	8.79	8.98	9.17
5.4	7.53	7.70	7.86	8.03	8.20	8.38	8.55	8.74	8.92	9.11	9.30
5.6	7.65	7.81	7.98	8.15	8.32	8.50	8.68	8.87	9.05	9.25	9.44
5.8	7.76	7.93	8.10	8.27	8.45	8.63	8.81	9.00	9.19	9.38	9.58
6.0	7.88	8.05	8.22	8.39	8.57	8.76	8.94	9.13	9.32	9.52	9.72
6.2	8.00	8.17	8.34	8.52	8.70	8.89	9.07	9.27	9.46	9.66	9.86
6.4	8.12	8.29	8.47	8.65	8.83	9.02	9.21	9.40	9.60	9.80	10.01
6.6	8.24	8.41	8.59	8.77	8.96	9.15	9.34	9.54	9.74	9.94	10.15
6.8	8.36	8.54	8.72	8.90	9.09	9.28	9.48	9.68	9.88	10.09	10.30
7.0	8.48	8.66	8.85	9.03	9.22	9.42	9.62	9.82	10.03	10.24	10.45

TEMP DEG C	PH 8.80	8.81	8.82	8.83	8.84	8.85	8.86	8.87	8.88	8.89	8.90
7.0	8.48	8.66	8.85	9.03	9.22	9.42	9.62	9.82	10.03	10.24	10.45
7.2	8.61	8.79	8.98	9.17	9.36	9.56	9.76	9.96	10.17	10.38	10.60
7.4	8.73	8.92	9.11	9.30	9.50	9.70	9.90	10.11	10.32	10.53	10.75
7.6	8.86	9.05	9.24	9.44	9.63	9.84	10.04	10.25	10.47	10.68	10.91
7.8	8.99	9.18	9.37	9.57	9.77	9.98	10.19	10.40	10.62	10.84	11.06
8.0	9.12	9.31	9.51	9.71	9.91	10.12	10.33	10.55	10.77	10.99	11.22
8.2	9.25	9.45	9.65	9.85	10.06	10.27	10.48	10.70	10.92	11.15	11.38
8.4	9.39	9.59	9.79	9.99	10.20	10.41	10.63	10.85	11.08	11.31	11.54
8.6	9.52	9.72	9.93	10.14	10.35	10.56	10.78	11.01	11.23	11.47	11.70
8.8	9.66	9.86	10.07	10.28	10.50	10.71	10.94	11.16	11.39	11.63	11.87
9.0	9.80	10.01	10.21	10.43	10.64	10.87	11.09	11.32	11.55	11.79	12.03
9.2	9.94	10.15	10.36	10.58	10.80	11.02	11.25	11.48	11.72	11.96	12.20
9.4	10.1	10.3	10.5	10.7	10.9	11.2	11.4	11.6	11.9	12.1	12.4
9.6	10.2	10.4	10.7	10.9	11.1	11.3	11.6	11.8	12.0	12.3	12.5
9.8	10.4	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7
10.0	10.5	10.7	11.0	11.2	11.4	11.7	11.9	12.1	12.4	12.6	12.9
10.2	10.7	10.9	11.1	11.3	11.6	11.8	12.1	12.3	12.6	12.8	13.1
10.4	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.2
10.6	11.0	11.2	11.4	11.7	11.9	12.1	12.4	12.6	12.9	13.2	13.4
10.8	11.1	11.3	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.3	13.6
11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8
11.2	11.4	11.7	11.9	12.1	12.4	12.7	12.9	13.2	13.4	13.7	14.0
11.4	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.3	13.6	13.9	14.2
11.6	11.7	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.4
11.8	11.9	12.2	12.4	12.7	12.9	13.2	13.4	13.7	14.0	14.3	14.5
12.0	12.1	12.3	12.6	12.8	13.1	13.4	13.6	13.9	14.2	14.5	14.7
12.2	12.2	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.4	14.6	14.9
12.4	12.4	12.7	12.9	13.2	13.4	13.7	14.0	14.3	14.6	14.8	15.1
12.6	12.6	12.8	13.1	13.4	13.6	13.9	14.2	14.5	14.7	15.0	15.3
12.8	12.7	13.0	13.3	13.5	13.8	14.1	14.4	14.6	14.9	15.2	15.5
13.0	12.9	13.2	13.4	13.7	14.0	14.3	14.6	14.8	15.1	15.4	15.7
13.2	13.1	13.4	13.6	13.9	14.2	14.5	14.7	15.0	15.3	15.6	15.9
13.4	13.3	13.5	13.8	14.1	14.4	14.6	14.9	15.2	15.5	15.8	16.1
13.6	13.4	13.7	14.0	14.3	14.5	14.8	15.1	15.4	15.7	16.0	16.4
13.8	13.6	13.9	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.2	16.6
14.0	13.8	14.1	14.4	14.6	14.9	15.2	15.5	15.8	16.1	16.5	16.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.80	8.81	8.82	8.83	8.84	8.85	8.86	8.87	8.88	8.89	8.90
14.0	13.8	14.1	14.4	14.6	14.9	15.2	15.5	15.8	16.1	16.5	16.8
14.2	14.0	14.3	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.7	17.0
14.4	14.2	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.6	16.9	17.2
14.6	14.4	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.8	17.1	17.4
14.8	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.7	17.0	17.3	17.6
15.0	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.9	17.2	17.5	17.9
15.2	14.9	15.2	15.5	15.8	16.1	16.4	16.8	17.1	17.4	17.7	18.1
15.4	15.1	15.4	15.7	16.0	16.3	16.6	17.0	17.3	17.6	18.0	18.3
15.6	15.3	15.6	15.9	16.2	16.5	16.9	17.2	17.5	17.9	18.2	18.5
15.8	15.5	15.8	16.1	16.4	16.7	17.1	17.4	17.7	18.1	18.4	18.8
16.0	15.7	16.0	16.3	16.6	17.0	17.3	17.6	18.0	18.3	18.6	19.0
16.2	15.9	16.2	16.5	16.8	17.2	17.5	17.8	18.2	18.5	18.9	19.2
16.4	16.1	16.4	16.7	17.1	17.4	17.7	18.1	18.4	18.7	19.1	19.5
16.6	16.3	16.6	16.9	17.3	17.6	17.9	18.3	18.6	19.0	19.3	19.7
16.8	16.5	16.8	17.2	17.5	17.8	18.2	18.5	18.9	19.2	19.6	19.9
17.0	16.7	17.0	17.4	17.7	18.0	18.4	18.7	19.1	19.4	19.8	20.2
17.2	16.9	17.3	17.6	17.9	18.3	18.6	19.0	19.3	19.7	20.0	20.4
17.4	17.1	17.5	17.8	18.1	18.5	18.8	19.2	19.5	19.9	20.3	20.7
17.6	17.3	17.7	18.0	18.4	18.7	19.1	19.4	19.8	20.2	20.5	20.9
17.8	17.6	17.9	18.2	18.6	18.9	19.3	19.7	20.0	20.4	20.8	21.1
18.0	17.8	18.1	18.5	18.8	19.2	19.5	19.9	20.3	20.6	21.0	21.4
18.2	18.0	18.3	18.7	19.0	19.4	19.8	20.1	20.5	20.9	21.3	21.6
18.4	18.2	18.6	18.9	19.3	19.6	20.0	20.4	20.7	21.1	21.5	21.9
18.6	18.4	18.8	19.1	19.5	19.9	20.2	20.6	21.0	21.4	21.8	22.2
18.8	18.7	19.0	19.4	19.7	20.1	20.5	20.8	21.2	21.6	22.0	22.4
19.0	18.9	19.2	19.6	20.0	20.3	20.7	21.1	21.5	21.9	22.3	22.7
19.2	19.1	19.5	19.8	20.2	20.6	21.0	21.3	21.7	22.1	22.5	22.9
19.4	19.3	19.7	20.1	20.4	20.8	21.2	21.6	22.0	22.4	22.8	23.2
19.6	19.6	19.9	20.3	20.7	21.1	21.4	21.8	22.2	22.6	23.0	23.4
19.8	19.8	20.2	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7
20.0	20.0	20.4	20.8	21.2	21.6	21.9	22.3	22.7	23.1	23.6	24.0
20.2	20.3	20.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2
20.4	20.5	20.9	21.3	21.7	22.0	22.4	22.8	23.3	23.7	24.1	24.5
20.6	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.4	24.8
20.8	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.6	25.1
21.0	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.5	24.9	25.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.80	8.81	8.82	8.83	8.84	8.85	8.86	8.87	8.88	8.89	8.90
21.0	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.5	24.9	25.3
21.2	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.3	24.7	25.2	25.6
21.4	21.7	22.1	22.5	22.9	23.3	23.7	24.2	24.6	25.0	25.4	25.9
21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.8	25.3	25.7	26.2
21.8	22.2	22.6	23.0	23.4	23.8	24.3	24.7	25.1	25.6	26.0	26.4
22.0	22.5	22.9	23.3	23.7	24.1	24.5	25.0	25.4	25.8	26.3	26.7
22.2	22.7	23.1	23.5	23.9	24.4	24.8	25.2	25.7	26.1	26.6	27.0
22.4	23.0	23.4	23.8	24.2	24.6	25.1	25.5	25.9	26.4	26.8	27.3
22.6	23.2	23.6	24.1	24.5	24.9	25.3	25.8	26.2	26.7	27.1	27.6
22.8	23.5	23.9	24.3	24.7	25.2	25.6	26.1	26.5	26.9	27.4	27.9
23.0	23.7	24.2	24.6	25.0	25.4	25.9	26.3	26.8	27.2	27.7	28.2
23.2	24.0	24.4	24.8	25.3	25.7	26.2	26.6	27.1	27.5	28.0	28.4
23.4	24.3	24.7	25.1	25.6	26.0	26.4	26.9	27.3	27.8	28.3	28.7
23.6	24.5	25.0	25.4	25.8	26.3	26.7	27.2	27.6	28.1	28.6	29.0
23.8	24.8	25.2	25.7	26.1	26.5	27.0	27.5	27.9	28.4	28.8	29.3
24.0	25.1	25.5	25.9	26.4	26.8	27.3	27.7	28.2	28.7	29.1	29.6
24.2	25.3	25.8	26.2	26.7	27.1	27.6	28.0	28.5	29.0	29.4	29.9
24.4	25.6	26.0	26.5	26.9	27.4	27.8	28.3	28.8	29.3	29.7	30.2
24.6	25.9	26.3	26.8	27.2	27.7	28.1	28.6	29.1	29.5	30.0	30.5
24.8	26.1	26.6	27.0	27.5	28.0	28.4	28.9	29.4	29.8	30.3	30.8
25.0	26.4	26.9	27.3	27.8	28.2	28.7	29.2	29.7	30.1	30.6	31.1
25.2	26.7	27.1	27.6	28.1	28.5	29.0	29.5	30.0	30.4	30.9	31.4
25.4	27.0	27.4	27.9	28.3	28.8	29.3	29.8	30.3	30.7	31.2	31.7
25.6	27.2	27.7	28.2	28.6	29.1	29.6	30.1	30.5	31.0	31.5	32.0
25.8	27.5	28.0	28.4	28.9	29.4	29.9	30.4	30.8	31.3	31.8	32.3
26.0	27.8	28.3	28.7	29.2	29.7	30.2	30.7	31.1	31.6	32.1	32.6
26.2	28.1	28.6	29.0	29.5	30.0	30.5	31.0	31.5	31.9	32.5	33.0
26.4	28.4	28.8	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3
26.6	28.7	29.1	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6
26.8	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9
27.0	29.2	29.7	30.2	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2
27.2	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5
27.4	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.8
27.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.2
27.8	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	34.9	35.5
28.0	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.7	35.3	35.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.80	8.81	8.82	8.83	8.84	8.85	8.86	8.87	8.88	8.89	8.90
28.0	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.7	35.3	35.8
28.2	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.1	35.6	36.1
28.4	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.8	35.4	35.9	36.4
28.6	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.2	35.7	36.2	36.7
28.8	31.9	32.4	32.9	33.4	33.9	34.4	34.9	35.5	36.0	36.5	37.1
29.0	32.2	32.7	33.2	33.7	34.2	34.7	35.3	35.8	36.3	36.9	37.4
29.2	32.5	33.0	33.5	34.0	34.5	35.0	35.6	36.1	36.6	37.2	37.7
29.4	32.8	33.3	33.8	34.3	34.8	35.4	35.9	36.4	37.0	37.5	38.0
29.6	33.1	33.6	34.1	34.6	35.1	35.7	36.2	36.7	37.3	37.8	38.4
29.8	33.4	33.9	34.4	34.9	35.5	36.0	36.5	37.1	37.6	38.1	38.7
30.0	33.7	34.2	34.7	35.2	35.8	36.3	36.8	37.4	37.9	38.5	39.0
30.2	34.0	34.5	35.0	35.6	36.1	36.6	37.2	37.7	38.2	38.8	39.3
30.4	34.3	34.8	35.3	35.9	36.4	36.9	37.5	38.0	38.6	39.1	39.7
30.6	34.6	35.1	35.7	36.2	36.7	37.3	37.8	38.3	38.9	39.4	40.0
30.8	34.9	35.4	36.0	36.5	37.0	37.6	38.1	38.7	39.2	39.8	40.3
31.0	35.2	35.8	36.3	36.8	37.4	37.9	38.4	39.0	39.5	40.1	40.6
31.2	35.5	36.1	36.6	37.1	37.7	38.2	38.8	39.3	39.9	40.4	41.0
31.4	35.8	36.4	36.9	37.5	38.0	38.5	39.1	39.6	40.2	40.7	41.3
31.6	36.2	36.7	37.2	37.8	38.3	38.9	39.4	40.0	40.5	41.1	41.6
31.8	36.5	37.0	37.5	38.1	38.6	39.2	39.7	40.3	40.8	41.4	42.0
32.0	36.8	37.3	37.9	38.4	39.0	39.5	40.1	40.6	41.2	41.7	42.3
32.2	37.1	37.6	38.2	38.7	39.3	39.8	40.4	40.9	41.5	42.1	42.6
32.4	37.4	38.0	38.5	39.0	39.6	40.1	40.7	41.3	41.8	42.4	42.9
32.6	37.7	38.3	38.8	39.4	39.9	40.5	41.0	41.6	42.1	42.7	43.3
32.8	38.0	38.6	39.1	39.7	40.2	40.8	41.4	41.9	42.5	43.0	43.6
33.0	38.4	38.9	39.5	40.0	40.6	41.1	41.7	42.2	42.8	43.4	43.9
33.2	38.7	39.2	39.8	40.3	40.9	41.4	42.0	42.6	43.1	43.7	44.3
33.4	39.0	39.5	40.1	40.7	41.2	41.8	42.3	42.9	43.5	44.0	44.6
33.6	39.3	39.9	40.4	41.0	41.5	42.1	42.7	43.2	43.8	44.4	44.9
33.8	39.6	40.2	40.7	41.3	41.9	42.4	43.0	43.5	44.1	44.7	45.3
34.0	40.0	40.5	41.1	41.6	42.2	42.7	43.3	43.9	44.4	45.0	45.6
34.2	40.3	40.8	41.4	41.9	42.5	43.1	43.6	44.2	44.8	45.3	45.9
34.4	40.6	41.2	41.7	42.3	42.8	43.4	44.0	44.5	45.1	45.7	46.2
34.6	40.9	41.5	42.0	42.6	43.2	43.7	44.3	44.9	45.4	46.0	46.6
34.8	41.2	41.8	42.4	42.9	43.5	44.1	44.6	45.2	45.8	46.3	46.9
35.0	41.6	42.1	42.7	43.2	43.8	44.4	44.9	45.5	46.1	46.7	47.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.80	8.81	8.82	8.83	8.84	8.85	8.86	8.87	8.88	8.89	8.90
35.0	41.6	42.1	42.7	43.2	43.8	44.4	44.9	45.5	46.1	46.7	47.2
35.2	41.9	42.4	43.0	43.6	44.1	44.7	45.3	45.8	46.4	47.0	47.6
35.4	42.2	42.8	43.3	43.9	44.5	45.0	45.6	46.2	46.7	47.3	47.9
35.6	42.5	43.1	43.7	44.2	44.8	45.4	45.9	46.5	47.1	47.6	48.2
35.8	42.8	43.4	44.0	44.5	45.1	45.7	46.3	46.8	47.4	48.0	48.6
36.0	43.2	43.7	44.3	44.9	45.4	46.0	46.6	47.2	47.7	48.3	48.9
36.2	43.5	44.1	44.6	45.2	45.8	46.3	46.9	47.5	48.1	48.6	49.2
36.4	43.8	44.4	45.0	45.5	46.1	46.7	47.2	47.8	48.4	49.0	49.5
36.6	44.1	44.7	45.3	45.8	46.4	47.0	47.6	48.1	48.7	49.3	49.9
36.8	44.5	45.0	45.6	46.2	46.7	47.3	47.9	48.5	49.0	49.6	50.2
37.0	44.8	45.4	45.9	46.5	47.1	47.6	48.2	48.8	49.4	49.9	50.5
37.2	45.1	45.7	46.2	46.8	47.4	48.0	48.5	49.1	49.7	50.3	50.8
37.4	45.4	46.0	46.6	47.1	47.7	48.3	48.9	49.4	50.0	50.6	51.2
37.6	45.8	46.3	46.9	47.5	48.0	48.6	49.2	49.8	50.3	50.9	51.5
37.8	46.1	46.6	47.2	47.8	48.4	48.9	49.5	50.1	50.7	51.2	51.8
38.0	46.4	47.0	47.5	48.1	48.7	49.3	49.8	50.4	51.0	51.6	52.1
38.2	46.7	47.3	47.9	48.4	49.0	49.6	50.2	50.7	51.3	51.9	52.5
38.4	47.0	47.6	48.2	48.8	49.3	49.9	50.5	51.1	51.6	52.2	52.8
38.6	47.4	47.9	48.5	49.1	49.7	50.2	50.8	51.4	52.0	52.5	53.1
38.8	47.7	48.3	48.8	49.4	50.0	50.6	51.1	51.7	52.3	52.9	53.4
39.0	48.0	48.6	49.2	49.7	50.3	50.9	51.5	52.0	52.6	53.2	53.8
39.2	48.3	48.9	49.5	50.1	50.6	51.2	51.8	52.4	52.9	53.5	54.1
39.4	48.7	49.2	49.8	50.4	51.0	51.5	52.1	52.7	53.3	53.8	54.4
39.6	49.0	49.5	50.1	50.7	51.3	51.9	52.4	53.0	53.6	54.1	54.7
39.8	49.3	49.9	50.4	51.0	51.6	52.2	52.7	53.3	53.9	54.5	55.0
40.0	49.6	50.2	50.8	51.3	51.9	52.5	53.1	53.6	54.2	54.8	55.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.90	8.91	8.92	8.93	8.94	8.95	8.96	8.97	8.98	8.99	9.00
.0	6.16	6.30	6.43	6.57	6.72	6.86	7.01	7.16	7.32	7.48	7.64
.2	6.26	6.40	6.54	6.68	6.82	6.97	7.12	7.28	7.43	7.59	7.76
.4	6.36	6.50	6.64	6.78	6.93	7.08	7.23	7.39	7.55	7.71	7.88
.6	6.46	6.60	6.74	6.89	7.04	7.19	7.35	7.51	7.67	7.83	8.00
.8	6.56	6.71	6.85	7.00	7.15	7.31	7.46	7.62	7.79	7.95	8.12
1.0	6.67	6.81	6.96	7.11	7.26	7.42	7.58	7.74	7.91	8.08	8.25
1.2	6.77	6.92	7.07	7.22	7.38	7.53	7.70	7.86	8.03	8.20	8.38
1.4	6.88	7.03	7.18	7.33	7.49	7.65	7.82	7.98	8.15	8.33	8.51
1.6	6.98	7.14	7.29	7.45	7.61	7.77	7.94	8.11	8.28	8.46	8.64
1.8	7.09	7.25	7.40	7.56	7.72	7.89	8.06	8.23	8.41	8.59	8.77
2.0	7.20	7.36	7.52	7.68	7.84	8.01	8.18	8.36	8.54	8.72	8.90
2.2	7.32	7.47	7.63	7.80	7.96	8.14	8.31	8.49	8.67	8.85	9.04
2.4	7.43	7.59	7.75	7.92	8.09	8.26	8.44	8.62	8.80	8.99	9.18
2.6	7.54	7.70	7.87	8.04	8.21	8.39	8.56	8.75	8.93	9.12	9.31
2.8	7.66	7.82	7.99	8.16	8.34	8.51	8.69	8.88	9.07	9.26	9.45
3.0	7.78	7.94	8.11	8.29	8.46	8.64	8.83	9.01	9.20	9.40	9.60
3.2	7.90	8.06	8.24	8.41	8.59	8.77	8.96	9.15	9.34	9.54	9.74
3.4	8.02	8.19	8.36	8.54	8.72	8.91	9.09	9.29	9.48	9.68	9.89
3.6	8.14	8.31	8.49	8.67	8.85	9.04	9.23	9.43	9.62	9.83	10.03
3.8	8.26	8.44	8.62	8.80	8.99	9.18	9.37	9.57	9.77	9.97	10.18
4.0	8.39	8.56	8.75	8.93	9.12	9.31	9.51	9.71	9.91	10.12	10.33
4.2	8.51	8.69	8.88	9.07	9.26	9.45	9.65	9.85	10.06	10.27	10.48
4.4	8.64	8.82	9.01	9.20	9.40	9.59	9.79	10.00	10.21	10.42	10.64
4.6	8.77	8.96	9.14	9.34	9.53	9.74	9.94	10.15	10.36	10.58	10.79
4.8	8.90	9.09	9.28	9.48	9.68	9.88	10.09	10.30	10.51	10.73	10.95
5.0	9.03	9.22	9.42	9.62	9.82	10.02	10.23	10.45	10.67	10.89	11.11
5.2	9.17	9.36	9.56	9.76	9.96	10.17	10.38	10.60	10.82	11.05	11.27
5.4	9.30	9.50	9.70	9.90	10.11	10.32	10.54	10.76	10.98	11.21	11.44
5.6	9.44	9.64	9.84	10.05	10.26	10.47	10.69	10.91	11.14	11.37	11.60
5.8	9.58	9.78	9.99	10.20	10.41	10.62	10.85	11.07	11.30	11.53	11.77
6.0	9.72	9.92	10.13	10.34	10.56	10.78	11.00	11.23	11.46	11.70	11.94
6.2	9.86	10.07	10.28	10.49	10.71	10.93	11.16	11.39	11.63	11.86	12.11
6.4	10.0	10.2	10.4	10.6	10.9	11.1	11.3	11.6	11.8	12.0	12.3
6.6	10.2	10.4	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5
6.8	10.3	10.5	10.7	11.0	11.2	11.4	11.6	11.9	12.1	12.4	12.6
7.0	10.4	10.7	10.9	11.1	11.3	11.6	11.8	12.1	12.3	12.6	12.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.90	8.91	8.92	8.93	8.94	8.95	8.96	8.97	8.98	8.99	9.00
7.0	10.4	10.7	10.9	11.1	11.3	11.6	11.8	12.1	12.3	12.6	12.8
7.2	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0
7.4	10.8	11.0	11.2	11.4	11.7	11.9	12.2	12.4	12.7	12.9	13.2
7.6	10.9	11.1	11.4	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.4
7.8	11.1	11.3	11.5	11.8	12.0	12.2	12.5	12.7	13.0	13.3	13.5
8.0	11.2	11.5	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7
8.2	11.4	11.6	11.9	12.1	12.3	12.6	12.8	13.1	13.4	13.6	13.9
8.4	11.5	11.8	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1
8.6	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0	14.3
8.8	11.9	12.1	12.4	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.5
9.0	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1	14.4	14.7
9.2	12.2	12.4	12.7	13.0	13.2	13.5	13.8	14.0	14.3	14.6	14.9
9.4	12.4	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.5	14.8	15.1
9.6	12.5	12.8	13.1	13.3	13.6	13.9	14.1	14.4	14.7	15.0	15.3
9.8	12.7	13.0	13.2	13.5	13.8	14.0	14.3	14.6	14.9	15.2	15.5
10.0	12.9	13.2	13.4	13.7	14.0	14.2	14.5	14.8	15.1	15.4	15.7
10.2	13.1	13.3	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.6	15.9
10.4	13.2	13.5	13.8	14.1	14.3	14.6	14.9	15.2	15.5	15.8	16.1
10.6	13.4	13.7	14.0	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3
10.8	13.6	13.9	14.2	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5
11.0	13.8	14.1	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.8
11.2	14.0	14.3	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.7	17.0
11.4	14.2	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.6	16.9	17.2
11.6	14.4	14.6	14.9	15.2	15.5	15.8	16.1	16.5	16.8	17.1	17.4
11.8	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.7	17.0	17.3	17.6
12.0	14.7	15.0	15.3	15.6	15.9	16.2	16.6	16.9	17.2	17.5	17.9
12.2	14.9	15.2	15.5	15.8	16.1	16.5	16.8	17.1	17.4	17.8	18.1
12.4	15.1	15.4	15.7	16.0	16.4	16.7	17.0	17.3	17.7	18.0	18.3
12.6	15.3	15.6	15.9	16.2	16.6	16.9	17.2	17.5	17.9	18.2	18.6
12.8	15.5	15.8	16.1	16.5	16.8	17.1	17.4	17.8	18.1	18.4	18.8
13.0	15.7	16.0	16.4	16.7	17.0	17.3	17.7	18.0	18.3	18.7	19.0
13.2	15.9	16.2	16.6	16.9	17.2	17.5	17.9	18.2	18.6	18.9	19.3
13.4	16.1	16.5	16.8	17.1	17.4	17.8	18.1	18.4	18.8	19.2	19.5
13.6	16.4	16.7	17.0	17.3	17.7	18.0	18.3	18.7	19.0	19.4	19.8
13.8	16.6	16.9	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6	20.0
14.0	16.8	17.1	17.4	17.8	18.1	18.4	18.8	19.1	19.5	19.9	20.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.90	8.91	8.92	8.93	8.94	8.95	8.96	8.97	8.98	8.99	9.00
14.0	16.8	17.1	17.4	17.8	18.1	18.4	18.8	19.1	19.5	19.9	20.2
14.2	17.0	17.3	17.6	18.0	18.3	18.7	19.0	19.4	19.7	20.1	20.5
14.4	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6	20.0	20.4	20.7
14.6	17.4	17.8	18.1	18.4	18.8	19.1	19.5	19.9	20.2	20.6	21.0
14.8	17.6	18.0	18.3	18.7	19.0	19.4	19.7	20.1	20.5	20.9	21.2
15.0	17.9	18.2	18.5	18.9	19.3	19.6	20.0	20.3	20.7	21.1	21.5
15.2	18.1	18.4	18.8	19.1	19.5	19.9	20.2	20.6	21.0	21.4	21.7
15.4	18.3	18.7	19.0	19.4	19.7	20.1	20.5	20.8	21.2	21.6	22.0
15.6	18.5	18.9	19.2	19.6	20.0	20.3	20.7	21.1	21.5	21.9	22.3
15.8	18.8	19.1	19.5	19.8	20.2	20.6	21.0	21.3	21.7	22.1	22.5
16.0	19.0	19.4	19.7	20.1	20.5	20.8	21.2	21.6	22.0	22.4	22.8
16.2	19.2	19.6	20.0	20.3	20.7	21.1	21.5	21.9	22.3	22.7	23.1
16.4	19.5	19.8	20.2	20.6	20.9	21.3	21.7	22.1	22.5	22.9	23.3
16.6	19.7	20.1	20.4	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6
16.8	19.9	20.3	20.7	21.1	21.4	21.8	22.2	22.6	23.0	23.4	23.9
17.0	20.2	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.1
17.2	20.4	20.8	21.2	21.6	22.0	22.3	22.8	23.2	23.6	24.0	24.4
17.4	20.7	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.3	24.7
17.6	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.5	25.0
17.8	21.1	21.5	21.9	22.3	22.7	23.1	23.5	24.0	24.4	24.8	25.2
18.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.7	25.1	25.5
18.2	21.6	22.0	22.4	22.8	23.3	23.7	24.1	24.5	24.9	25.4	25.8
18.4	21.9	22.3	22.7	23.1	23.5	23.9	24.4	24.8	25.2	25.6	26.1
18.6	22.2	22.6	23.0	23.4	23.8	24.2	24.6	25.1	25.5	25.9	26.4
18.8	22.4	22.8	23.2	23.6	24.1	24.5	24.9	25.3	25.8	26.2	26.7
19.0	22.7	23.1	23.5	23.9	24.3	24.7	25.2	25.6	26.1	26.5	27.0
19.2	22.9	23.3	23.7	24.2	24.6	25.0	25.5	25.9	26.3	26.8	27.2
19.4	23.2	23.6	24.0	24.4	24.9	25.3	25.7	26.2	26.6	27.1	27.5
19.6	23.4	23.9	24.3	24.7	25.1	25.6	26.0	26.5	26.9	27.4	27.8
19.8	23.7	24.1	24.6	25.0	25.4	25.9	26.3	26.7	27.2	27.7	28.1
20.0	24.0	24.4	24.8	25.3	25.7	26.1	26.6	27.0	27.5	28.0	28.4
20.2	24.2	24.7	25.1	25.5	26.0	26.4	26.9	27.3	27.8	28.3	28.7
20.4	24.5	24.9	25.4	25.8	26.3	26.7	27.2	27.6	28.1	28.5	29.0
20.6	24.8	25.2	25.7	26.1	26.5	27.0	27.4	27.9	28.4	28.8	29.3
20.8	25.1	25.5	25.9	26.4	26.8	27.3	27.7	28.2	28.7	29.1	29.6
21.0	25.3	25.8	26.2	26.7	27.1	27.6	28.0	28.5	29.0	29.4	29.9

TEMP DEG C	PH 8.90	8.91	8.92	8.93	8.94	8.95	8.96	8.97	8.98	8.99	9.00
21.0	25.3	25.8	26.2	26.7	27.1	27.6	28.0	28.5	29.0	29.4	29.9
21.2	25.6	26.0	26.5	26.9	27.4	27.9	28.3	28.8	29.3	29.7	30.2
21.4	25.9	26.3	26.8	27.2	27.7	28.2	28.6	29.1	29.6	30.1	30.5
21.6	26.2	26.6	27.1	27.5	28.0	28.4	28.9	29.4	29.9	30.4	30.8
21.8	26.4	26.9	27.3	27.8	28.3	28.7	29.2	29.7	30.2	30.7	31.2
22.0	26.7	27.2	27.6	28.1	28.6	29.0	29.5	30.0	30.5	31.0	31.5
22.2	27.0	27.5	27.9	28.4	28.9	29.3	29.8	30.3	30.8	31.3	31.8
22.4	27.3	27.8	28.2	28.7	29.2	29.6	30.1	30.6	31.1	31.6	32.1
22.6	27.6	28.0	28.5	29.0	29.5	29.9	30.4	30.9	31.4	31.9	32.4
22.8	27.9	28.3	28.8	29.3	29.8	30.2	30.7	31.2	31.7	32.2	32.7
23.0	28.2	28.6	29.1	29.6	30.1	30.5	31.0	31.5	32.0	32.5	33.0
23.2	28.4	28.9	29.4	29.9	30.4	30.8	31.3	31.8	32.3	32.8	33.4
23.4	28.7	29.2	29.7	30.2	30.7	31.2	31.6	32.1	32.7	33.2	33.7
23.6	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0
23.8	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3
24.0	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6
24.2	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	35.0
24.4	30.2	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.8	35.3
24.6	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.6	35.1	35.6
24.8	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.4	34.9	35.4	35.9
25.0	31.1	31.6	32.1	32.6	33.1	33.6	34.2	34.7	35.2	35.7	36.3
25.2	31.4	31.9	32.4	32.9	33.4	34.0	34.5	35.0	35.5	36.1	36.6
25.4	31.7	32.2	32.7	33.2	33.8	34.3	34.8	35.3	35.8	36.4	36.9
25.6	32.0	32.5	33.0	33.6	34.1	34.6	35.1	35.6	36.2	36.7	37.2
25.8	32.3	32.8	33.4	33.9	34.4	34.9	35.4	36.0	36.5	37.0	37.6
26.0	32.6	33.2	33.7	34.2	34.7	35.2	35.8	36.3	36.8	37.4	37.9
26.2	33.0	33.5	34.0	34.5	35.0	35.6	36.1	36.6	37.1	37.7	38.2
26.4	33.3	33.8	34.3	34.8	35.3	35.9	36.4	36.9	37.5	38.0	38.6
26.6	33.6	34.1	34.6	35.1	35.7	36.2	36.7	37.3	37.8	38.3	38.9
26.8	33.9	34.4	34.9	35.5	36.0	36.5	37.1	37.6	38.1	38.7	39.2
27.0	34.2	34.7	35.3	35.8	36.3	36.8	37.4	37.9	38.5	39.0	39.6
27.2	34.5	35.0	35.6	36.1	36.6	37.2	37.7	38.2	38.8	39.3	39.9
27.4	34.8	35.4	35.9	36.4	37.0	37.5	38.0	38.6	39.1	39.7	40.2
27.6	35.2	35.7	36.2	36.7	37.3	37.8	38.4	38.9	39.5	40.0	40.6
27.8	35.5	36.0	36.5	37.1	37.6	38.1	38.7	39.2	39.8	40.3	40.9
28.0	35.8	36.3	36.9	37.4	37.9	38.5	39.0	39.6	40.1	40.7	41.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.90	8.91	8.92	8.93	8.94	8.95	8.96	8.97	8.98	8.99	9.00
28.0	35.8	36.3	36.9	37.4	37.9	38.5	39.0	39.6	40.1	40.7	41.2
28.2	36.1	36.6	37.2	37.7	38.3	38.8	39.4	39.9	40.5	41.0	41.6
28.4	36.4	37.0	37.5	38.0	38.6	39.1	39.7	40.2	40.8	41.3	41.9
28.6	36.7	37.3	37.8	38.4	38.9	39.5	40.0	40.6	41.1	41.7	42.2
28.8	37.1	37.6	38.1	38.7	39.2	39.8	40.3	40.9	41.5	42.0	42.6
29.0	37.4	37.9	38.5	39.0	39.6	40.1	40.7	41.2	41.8	42.4	42.9
29.2	37.7	38.3	38.8	39.3	39.9	40.5	41.0	41.6	42.1	42.7	43.3
29.4	38.0	38.6	39.1	39.7	40.2	40.8	41.3	41.9	42.5	43.0	43.6
29.6	38.4	38.9	39.5	40.0	40.6	41.1	41.7	42.2	42.8	43.4	43.9
29.8	38.7	39.2	39.8	40.3	40.9	41.4	42.0	42.6	43.1	43.7	44.3
30.0	39.0	39.6	40.1	40.7	41.2	41.8	42.3	42.9	43.5	44.0	44.6
30.2	39.3	39.9	40.4	41.0	41.6	42.1	42.7	43.2	43.8	44.4	44.9
30.4	39.7	40.2	40.8	41.3	41.9	42.4	43.0	43.6	44.1	44.7	45.3
30.6	40.0	40.5	41.1	41.7	42.2	42.8	43.3	43.9	44.5	45.0	45.6
30.8	40.3	40.9	41.4	42.0	42.5	43.1	43.7	44.2	44.8	45.4	46.0
31.0	40.6	41.2	41.8	42.3	42.9	43.4	44.0	44.6	45.1	45.7	46.3
31.2	41.0	41.5	42.1	42.6	43.2	43.8	44.3	44.9	45.5	46.1	46.6
31.4	41.3	41.9	42.4	43.0	43.5	44.1	44.7	45.3	45.8	46.4	47.0
31.6	41.6	42.2	42.7	43.3	43.9	44.4	45.0	45.6	46.2	46.7	47.3
31.8	42.0	42.5	43.1	43.6	44.2	44.8	45.4	45.9	46.5	47.1	47.6
32.0	42.3	42.8	43.4	44.0	44.5	45.1	45.7	46.3	46.8	47.4	48.0
32.2	42.6	43.2	43.7	44.3	44.9	45.4	46.0	46.6	47.2	47.7	48.3
32.4	42.9	43.5	44.1	44.6	45.2	45.8	46.4	46.9	47.5	48.1	48.7
32.6	43.3	43.8	44.4	45.0	45.5	46.1	46.7	47.3	47.8	48.4	49.0
32.8	43.6	44.2	44.7	45.3	45.9	46.5	47.0	47.6	48.2	48.7	49.3
33.0	43.9	44.5	45.1	45.6	46.2	46.8	47.4	47.9	48.5	49.1	49.7
33.2	44.3	44.8	45.4	46.0	46.5	47.1	47.7	48.3	48.8	49.4	50.0
33.4	44.6	45.2	45.7	46.3	46.9	47.5	48.0	48.6	49.2	49.8	50.3
33.6	44.9	45.5	46.1	46.6	47.2	47.8	48.4	48.9	49.5	50.1	50.7
33.8	45.3	45.8	46.4	47.0	47.5	48.1	48.7	49.3	49.8	50.4	51.0
34.0	45.6	46.2	46.7	47.3	47.9	48.5	49.0	49.6	50.2	50.8	51.3
34.2	45.9	46.5	47.1	47.6	48.2	48.8	49.4	49.9	50.5	51.1	51.7
34.4	46.2	46.8	47.4	48.0	48.5	49.1	49.7	50.3	50.8	51.4	52.0
34.6	46.6	47.1	47.7	48.3	48.9	49.4	50.0	50.6	51.2	51.8	52.3
34.8	46.9	47.5	48.1	48.6	49.2	49.8	50.4	50.9	51.5	52.1	52.7
35.0	47.2	47.8	48.4	49.0	49.5	50.1	50.7	51.3	51.8	52.4	53.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 8.90	8.91	8.92	8.93	8.94	8.95	8.96	8.97	8.98	8.99	9.00
35.0	47.2	47.8	48.4	49.0	49.5	50.1	50.7	51.3	51.8	52.4	53.0
35.2	47.6	48.1	48.7	49.3	49.9	50.4	51.0	51.6	52.2	52.7	53.3
35.4	47.9	48.5	49.0	49.6	50.2	50.8	51.3	51.9	52.5	53.1	53.6
35.6	48.2	48.8	49.4	50.0	50.5	51.1	51.7	52.3	52.8	53.4	54.0
35.8	48.6	49.1	49.7	50.3	50.9	51.4	52.0	52.6	53.2	53.7	54.3
36.0	48.9	49.5	50.0	50.6	51.2	51.8	52.3	52.9	53.5	54.1	54.6
36.2	49.2	49.8	50.4	50.9	51.5	52.1	52.7	53.2	53.8	54.4	55.0
36.4	49.5	50.1	50.7	51.3	51.8	52.4	53.0	53.6	54.1	54.7	55.3
36.6	49.9	50.4	51.0	51.6	52.2	52.7	53.3	53.9	54.5	55.0	55.6
36.8	50.2	50.8	51.3	51.9	52.5	53.1	53.6	54.2	54.8	55.4	55.9
37.0	50.5	51.1	51.7	52.2	52.8	53.4	54.0	54.5	55.1	55.7	56.2
37.2	50.8	51.4	52.0	52.6	53.1	53.7	54.3	54.9	55.4	56.0	56.6
37.4	51.2	51.7	52.3	52.9	53.5	54.0	54.6	55.2	55.8	56.3	56.9
37.6	51.5	52.1	52.6	53.2	53.8	54.4	54.9	55.5	56.1	56.6	57.2
37.8	51.8	52.4	53.0	53.5	54.1	54.7	55.3	55.8	56.4	57.0	57.5
38.0	52.1	52.7	53.3	53.9	54.4	55.0	55.6	56.1	56.7	57.3	57.8
38.2	52.5	53.0	53.6	54.2	54.8	55.3	55.9	56.5	57.0	57.6	58.2
38.4	52.8	53.4	53.9	54.5	55.1	55.6	56.2	56.8	57.3	57.9	58.5
38.6	53.1	53.7	54.3	54.8	55.4	56.0	56.5	57.1	57.7	58.2	58.8
38.8	53.4	54.0	54.6	55.2	55.7	56.3	56.9	57.4	58.0	58.5	59.1
39.0	53.8	54.3	54.9	55.5	56.0	56.6	57.2	57.7	58.3	58.9	59.4
39.2	54.1	54.6	55.2	55.8	56.4	56.9	57.5	58.0	58.6	59.2	59.7
39.4	54.4	55.0	55.5	56.1	56.7	57.2	57.8	58.4	58.9	59.5	60.0
39.6	54.7	55.3	55.9	56.4	57.0	57.5	58.1	58.7	59.2	59.8	60.3
39.8	55.0	55.6	56.2	56.7	57.3	57.9	58.4	59.0	59.5	60.1	60.6
40.0	55.4	55.9	56.5	57.1	57.6	58.2	58.7	59.3	59.8	60.4	60.9

TEMP DEG C	PH 9.00	9.01	9.02	9.03	9.04	9.05	9.06	9.07	9.08	9.09	9.10
.0	7.64	7.80	7.97	8.14	8.31	8.49	8.67	8.85	9.04	9.23	9.43
.2	7.76	7.92	8.09	8.27	8.44	8.62	8.80	8.99	9.18	9.37	9.57
.4	7.88	8.05	8.22	8.39	8.57	8.75	8.94	9.13	9.32	9.52	9.72
.6	8.00	8.17	8.35	8.52	8.70	8.89	9.08	9.27	9.46	9.66	9.87
.8	8.12	8.30	8.47	8.65	8.84	9.03	9.22	9.41	9.61	9.81	10.02
1.0	8.25	8.43	8.61	8.79	8.97	9.16	9.36	9.55	9.76	9.96	10.17
1.2	8.38	8.56	8.74	8.92	9.11	9.30	9.50	9.70	9.90	10.11	10.32
1.4	8.51	8.69	8.87	9.06	9.25	9.45	9.64	9.85	10.05	10.26	10.48
1.6	8.64	8.82	9.01	9.20	9.39	9.59	9.79	10.00	10.21	10.42	10.64
1.8	8.77	8.95	9.14	9.34	9.53	9.73	9.94	10.15	10.36	10.57	10.79
2.0	8.90	9.09	9.28	9.48	9.68	9.88	10.09	10.30	10.51	10.73	10.96
2.2	9.04	9.23	9.42	9.62	9.82	10.03	10.24	10.45	10.67	10.89	11.12
2.4	9.18	9.37	9.57	9.77	9.97	10.18	10.39	10.61	10.83	11.05	11.28
2.6	9.31	9.51	9.71	9.91	10.12	10.33	10.55	10.77	10.99	11.22	11.45
2.8	9.45	9.65	9.86	10.06	10.27	10.49	10.70	10.93	11.15	11.38	11.62
3.0	9.60	9.80	10.00	10.21	10.43	10.64	10.86	11.09	11.32	11.55	11.79
3.2	9.74	9.94	10.15	10.36	10.58	10.80	11.02	11.25	11.48	11.72	11.96
3.4	9.89	10.09	10.30	10.52	10.74	10.96	11.19	11.42	11.65	11.89	12.13
3.6	10.0	10.2	10.5	10.7	10.9	11.1	11.4	11.6	11.8	12.1	12.3
3.8	10.2	10.4	10.6	10.8	11.1	11.3	11.5	11.8	12.0	12.2	12.5
4.0	10.3	10.5	10.8	11.0	11.2	11.4	11.7	11.9	12.2	12.4	12.7
4.2	10.5	10.7	10.9	11.2	11.4	11.6	11.9	12.1	12.3	12.6	12.9
4.4	10.6	10.9	11.1	11.3	11.5	11.8	12.0	12.3	12.5	12.8	13.0
4.6	10.8	11.0	11.2	11.5	11.7	12.0	12.2	12.4	12.7	13.0	13.2
4.8	11.0	11.2	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1	13.4
5.0	11.1	11.3	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.3	13.6
5.2	11.3	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8
5.4	11.4	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.4	13.7	14.0
5.6	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.4	13.6	13.9	14.2
5.8	11.8	12.0	12.3	12.5	12.8	13.0	13.3	13.5	13.8	14.1	14.4
6.0	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0	14.3	14.6
6.2	12.1	12.4	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.5	14.8
6.4	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1	14.4	14.7	15.0
6.6	12.5	12.7	13.0	13.2	13.5	13.8	14.0	14.3	14.6	14.9	15.2
6.8	12.6	12.9	13.1	13.4	13.7	14.0	14.2	14.5	14.8	15.1	15.4
7.0	12.8	13.1	13.3	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.6

TEMP DEG C	PH 9.00	9.01	9.02	9.03	9.04	9.05	9.06	9.07	9.08	9.09	9.10
7.0	12.8	13.1	13.3	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.6
7.2	13.0	13.2	13.5	13.8	14.1	14.3	14.6	14.9	15.2	15.5	15.8
7.4	13.2	13.4	13.7	14.0	14.3	14.5	14.8	15.1	15.4	15.7	16.0
7.6	13.4	13.6	13.9	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.2
7.8	13.5	13.8	14.1	14.4	14.7	14.9	15.2	15.5	15.8	16.2	16.5
8.0	13.7	14.0	14.3	14.6	14.9	15.1	15.4	15.7	16.1	16.4	16.7
8.2	13.9	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9
8.4	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1
8.6	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.4
8.8	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.3	17.6
9.0	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.2	17.5	17.8
9.2	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.4	17.7	18.0
9.4	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.3	17.6	17.9	18.3
9.6	15.3	15.6	15.9	16.2	16.5	16.8	17.2	17.5	17.8	18.2	18.5
9.8	15.5	15.8	16.1	16.4	16.7	17.1	17.4	17.7	18.1	18.4	18.8
10.0	15.7	16.0	16.3	16.6	17.0	17.3	17.6	18.0	18.3	18.6	19.0
10.2	15.9	16.2	16.5	16.9	17.2	17.5	17.8	18.2	18.5	18.9	19.2
10.4	16.1	16.4	16.8	17.1	17.4	17.7	18.1	18.4	18.8	19.1	19.5
10.6	16.3	16.7	17.0	17.3	17.6	18.0	18.3	18.7	19.0	19.4	19.7
10.8	16.5	16.9	17.2	17.5	17.9	18.2	18.5	18.9	19.3	19.6	20.0
11.0	16.8	17.1	17.4	17.8	18.1	18.4	18.8	19.1	19.5	19.9	20.2
11.2	17.0	17.3	17.6	18.0	18.3	18.7	19.0	19.4	19.7	20.1	20.5
11.4	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6	20.0	20.4	20.7
11.6	17.4	17.8	18.1	18.4	18.8	19.1	19.5	19.9	20.2	20.6	21.0
11.8	17.6	18.0	18.3	18.7	19.0	19.4	19.7	20.1	20.5	20.9	21.2
12.0	17.9	18.2	18.6	18.9	19.3	19.6	20.0	20.4	20.7	21.1	21.5
12.2	18.1	18.4	18.8	19.1	19.5	19.9	20.2	20.6	21.0	21.4	21.8
12.4	18.3	18.7	19.0	19.4	19.8	20.1	20.5	20.9	21.3	21.6	22.0
12.6	18.6	18.9	19.3	19.6	20.0	20.4	20.7	21.1	21.5	21.9	22.3
12.8	18.8	19.2	19.5	19.9	20.2	20.6	21.0	21.4	21.8	22.2	22.6
13.0	19.0	19.4	19.8	20.1	20.5	20.9	21.3	21.6	22.0	22.4	22.8
13.2	19.3	19.6	20.0	20.4	20.7	21.1	21.5	21.9	22.3	22.7	23.1
13.4	19.5	19.9	20.2	20.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4
13.6	19.8	20.1	20.5	20.9	21.3	21.6	22.0	22.4	22.8	23.2	23.7
13.8	20.0	20.4	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9
14.0	20.2	20.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.00	9.01	9.02	9.03	9.04	9.05	9.06	9.07	9.08	9.09	9.10
14.0	20.2	20.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2
14.2	20.5	20.9	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.1	24.5
14.4	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.3	24.8
14.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.6	25.1
14.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.1	24.5	24.9	25.3
15.0	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.3	24.8	25.2	25.6
15.2	21.7	22.1	22.5	22.9	23.4	23.8	24.2	24.6	25.0	25.5	25.9
15.4	22.0	22.4	22.8	23.2	23.6	24.0	24.5	24.9	25.3	25.8	26.2
15.6	22.3	22.7	23.1	23.5	23.9	24.3	24.7	25.2	25.6	26.1	26.5
15.8	22.5	22.9	23.3	23.8	24.2	24.6	25.0	25.5	25.9	26.3	26.8
16.0	22.8	23.2	23.6	24.0	24.5	24.9	25.3	25.8	26.2	26.6	27.1
16.2	23.1	23.5	23.9	24.3	24.7	25.2	25.6	26.0	26.5	26.9	27.4
16.4	23.3	23.7	24.2	24.6	25.0	25.4	25.9	26.3	26.8	27.2	27.7
16.6	23.6	24.0	24.4	24.9	25.3	25.7	26.2	26.6	27.1	27.5	28.0
16.8	23.9	24.3	24.7	25.1	25.6	26.0	26.5	26.9	27.4	27.8	28.3
17.0	24.1	24.6	25.0	25.4	25.9	26.3	26.8	27.2	27.7	28.1	28.6
17.2	24.4	24.8	25.3	25.7	26.1	26.6	27.0	27.5	28.0	28.4	28.9
17.4	24.7	25.1	25.6	26.0	26.4	26.9	27.3	27.8	28.3	28.7	29.2
17.6	25.0	25.4	25.8	26.3	26.7	27.2	27.6	28.1	28.6	29.0	29.5
17.8	25.2	25.7	26.1	26.6	27.0	27.5	27.9	28.4	28.9	29.3	29.8
18.0	25.5	26.0	26.4	26.9	27.3	27.8	28.2	28.7	29.2	29.7	30.1
18.2	25.8	26.2	26.7	27.2	27.6	28.1	28.5	29.0	29.5	30.0	30.5
18.4	26.1	26.5	27.0	27.4	27.9	28.4	28.8	29.3	29.8	30.3	30.8
18.6	26.4	26.8	27.3	27.7	28.2	28.7	29.1	29.6	30.1	30.6	31.1
18.8	26.7	27.1	27.6	28.0	28.5	29.0	29.5	29.9	30.4	30.9	31.4
19.0	27.0	27.4	27.9	28.3	28.8	29.3	29.8	30.2	30.7	31.2	31.7
19.2	27.2	27.7	28.2	28.6	29.1	29.6	30.1	30.6	31.0	31.5	32.0
19.4	27.5	28.0	28.5	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4
19.6	27.8	28.3	28.8	29.2	29.7	30.2	30.7	31.2	31.7	32.2	32.7
19.8	28.1	28.6	29.1	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0
20.0	28.4	28.9	29.4	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3
20.2	28.7	29.2	29.7	30.2	30.6	31.1	31.6	32.1	32.6	33.1	33.7
20.4	29.0	29.5	30.0	30.5	31.0	31.4	31.9	32.4	33.0	33.5	34.0
20.6	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3
20.8	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6
21.0	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	35.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.00	9.01	9.02	9.03	9.04	9.05	9.06	9.07	9.08	9.09	9.10
21.0	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	35.0
21.2	30.2	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.3	34.8	35.3
21.4	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.1	34.6	35.1	35.6
21.6	30.8	31.3	31.8	32.3	32.8	33.4	33.9	34.4	34.9	35.4	36.0
21.8	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.7	35.2	35.8	36.3
22.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.6	36.1	36.6
22.2	31.8	32.3	32.8	33.3	33.8	34.3	34.8	35.4	35.9	36.4	37.0
22.4	32.1	32.6	33.1	33.6	34.1	34.6	35.2	35.7	36.2	36.8	37.3
22.6	32.4	32.9	33.4	33.9	34.5	35.0	35.5	36.0	36.6	37.1	37.6
22.8	32.7	33.2	33.7	34.3	34.8	35.3	35.8	36.4	36.9	37.4	38.0
23.0	33.0	33.5	34.1	34.6	35.1	35.6	36.2	36.7	37.2	37.8	38.3
23.2	33.4	33.9	34.4	34.9	35.4	36.0	36.5	37.0	37.6	38.1	38.7
23.4	33.7	34.2	34.7	35.2	35.8	36.3	36.8	37.4	37.9	38.4	39.0
23.6	34.0	34.5	35.0	35.6	36.1	36.6	37.2	37.7	38.2	38.8	39.3
23.8	34.3	34.8	35.4	35.9	36.4	37.0	37.5	38.0	38.6	39.1	39.7
24.0	34.6	35.2	35.7	36.2	36.7	37.3	37.8	38.4	38.9	39.5	40.0
24.2	35.0	35.5	36.0	36.5	37.1	37.6	38.2	38.7	39.3	39.8	40.4
24.4	35.3	35.8	36.3	36.9	37.4	38.0	38.5	39.0	39.6	40.1	40.7
24.6	35.6	36.1	36.7	37.2	37.7	38.3	38.8	39.4	39.9	40.5	41.0
24.8	35.9	36.5	37.0	37.5	38.1	38.6	39.2	39.7	40.3	40.8	41.4
25.0	36.3	36.8	37.3	37.9	38.4	39.0	39.5	40.1	40.6	41.2	41.7
25.2	36.6	37.1	37.7	38.2	38.7	39.3	39.8	40.4	41.0	41.5	42.1
25.4	36.9	37.4	38.0	38.5	39.1	39.6	40.2	40.7	41.3	41.9	42.4
25.6	37.2	37.8	38.3	38.9	39.4	40.0	40.5	41.1	41.6	42.2	42.8
25.8	37.6	38.1	38.7	39.2	39.8	40.3	40.9	41.4	42.0	42.5	43.1
26.0	37.9	38.4	39.0	39.5	40.1	40.6	41.2	41.8	42.3	42.9	43.4
26.2	38.2	38.8	39.3	39.9	40.4	41.0	41.5	42.1	42.7	43.2	43.8
26.4	38.6	39.1	39.7	40.2	40.8	41.3	41.9	42.4	43.0	43.6	44.1
26.6	38.9	39.4	40.0	40.5	41.1	41.7	42.2	42.8	43.4	43.9	44.5
26.8	39.2	39.8	40.3	40.9	41.4	42.0	42.6	43.1	43.7	44.3	44.8
27.0	39.6	40.1	40.7	41.2	41.8	42.3	42.9	43.5	44.0	44.6	45.2
27.2	39.9	40.4	41.0	41.6	42.1	42.7	43.2	43.8	44.4	45.0	45.5
27.4	40.2	40.8	41.3	41.9	42.5	43.0	43.6	44.2	44.7	45.3	45.9
27.6	40.6	41.1	41.7	42.2	42.8	43.4	43.9	44.5	45.1	45.6	46.2
27.8	40.9	41.5	42.0	42.6	43.1	43.7	44.3	44.8	45.4	46.0	46.6
28.0	41.2	41.8	42.4	42.9	43.5	44.0	44.6	45.2	45.8	46.3	46.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.00	9.01	9.02	9.03	9.04	9.05	9.06	9.07	9.08	9.09	9.10
28.0	41.2	41.8	42.4	42.9	43.5	44.0	44.6	45.2	45.8	46.3	46.9
28.2	41.6	42.1	42.7	43.3	43.8	44.4	45.0	45.5	46.1	46.7	47.2
28.4	41.9	42.5	43.0	43.6	44.2	44.7	45.3	45.9	46.4	47.0	47.6
28.6	42.2	42.8	43.4	43.9	44.5	45.1	45.6	46.2	46.8	47.4	47.9
28.8	42.6	43.1	43.7	44.3	44.8	45.4	46.0	46.6	47.1	47.7	48.3
29.0	42.9	43.5	44.0	44.6	45.2	45.8	46.3	46.9	47.5	48.0	48.6
29.2	43.3	43.8	44.4	45.0	45.5	46.1	46.7	47.2	47.8	48.4	49.0
29.4	43.6	44.2	44.7	45.3	45.9	46.4	47.0	47.6	48.2	48.7	49.3
29.6	43.9	44.5	45.1	45.6	46.2	46.8	47.4	47.9	48.5	49.1	49.7
29.8	44.3	44.8	45.4	46.0	46.5	47.1	47.7	48.3	48.8	49.4	50.0
30.0	44.6	45.2	45.7	46.3	46.9	47.5	48.0	48.6	49.2	49.8	50.3
30.2	44.9	45.5	46.1	46.7	47.2	47.8	48.4	49.0	49.5	50.1	50.7
30.4	45.3	45.9	46.4	47.0	47.6	48.1	48.7	49.3	49.9	50.4	51.0
30.6	45.6	46.2	46.8	47.3	47.9	48.5	49.1	49.6	50.2	50.8	51.4
30.8	46.0	46.5	47.1	47.7	48.2	48.8	49.4	50.0	50.6	51.1	51.7
31.0	46.3	46.9	47.4	48.0	48.6	49.2	49.7	50.3	50.9	51.5	52.0
31.2	46.6	47.2	47.8	48.4	48.9	49.5	50.1	50.7	51.2	51.8	52.4
31.4	47.0	47.5	48.1	48.7	49.3	49.8	50.4	51.0	51.6	52.1	52.7
31.6	47.3	47.9	48.5	49.0	49.6	50.2	50.8	51.3	51.9	52.5	53.1
31.8	47.6	48.2	48.8	49.4	49.9	50.5	51.1	51.7	52.2	52.8	53.4
32.0	48.0	48.6	49.1	49.7	50.3	50.9	51.4	52.0	52.6	53.2	53.7
32.2	48.3	48.9	49.5	50.0	50.6	51.2	51.8	52.3	52.9	53.5	54.1
32.4	48.7	49.2	49.8	50.4	51.0	51.5	52.1	52.7	53.3	53.8	54.4
32.6	49.0	49.6	50.1	50.7	51.3	51.9	52.4	53.0	53.6	54.2	54.7
32.8	49.3	49.9	50.5	51.1	51.6	52.2	52.8	53.3	53.9	54.5	55.1
33.0	49.7	50.2	50.8	51.4	52.0	52.5	53.1	53.7	54.3	54.8	55.4
33.2	50.0	50.6	51.1	51.7	52.3	52.9	53.4	54.0	54.6	55.2	55.7
33.4	50.3	50.9	51.5	52.1	52.6	53.2	53.8	54.3	54.9	55.5	56.1
33.6	50.7	51.2	51.8	52.4	53.0	53.5	54.1	54.7	55.2	55.8	56.4
33.8	51.0	51.6	52.1	52.7	53.3	53.9	54.4	55.0	55.6	56.1	56.7
34.0	51.3	51.9	52.5	53.1	53.6	54.2	54.8	55.3	55.9	56.5	57.0
34.2	51.7	52.2	52.8	53.4	54.0	54.5	55.1	55.7	56.2	56.8	57.4
34.4	52.0	52.6	53.1	53.7	54.3	54.9	55.4	56.0	56.6	57.1	57.7
34.6	52.3	52.9	53.5	54.0	54.6	55.2	55.8	56.3	56.9	57.5	58.0
34.8	52.7	53.2	53.8	54.4	54.9	55.5	56.1	56.6	57.2	57.8	58.3
35.0	53.0	53.6	54.1	54.7	55.3	55.8	56.4	57.0	57.5	58.1	58.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.00	9.01	9.02	9.03	9.04	9.05	9.06	9.07	9.08	9.09	9.10
35.0	53.0	53.6	54.1	54.7	55.3	55.8	56.4	57.0	57.5	58.1	58.7
35.2	53.3	53.9	54.5	55.0	55.6	56.2	56.7	57.3	57.9	58.4	59.0
35.4	53.6	54.2	54.8	55.4	55.9	56.5	57.1	57.6	58.2	58.7	59.3
35.6	54.0	54.5	55.1	55.7	56.2	56.8	57.4	57.9	58.5	59.1	59.6
35.8	54.3	54.9	55.4	56.0	56.6	57.1	57.7	58.3	58.8	59.4	59.9
36.0	54.6	55.2	55.8	56.3	56.9	57.5	58.0	58.6	59.1	59.7	60.2
36.2	55.0	55.5	56.1	56.7	57.2	57.8	58.3	58.9	59.5	60.0	60.6
36.4	55.3	55.8	56.4	57.0	57.5	58.1	58.7	59.2	59.8	60.3	60.9
36.6	55.6	56.2	56.7	57.3	57.9	58.4	59.0	59.5	60.1	60.6	61.2
36.8	55.9	56.5	57.1	57.6	58.2	58.7	59.3	59.8	60.4	60.9	61.5
37.0	56.2	56.8	57.4	57.9	58.5	59.1	59.6	60.2	60.7	61.3	61.8
37.2	56.6	57.1	57.7	58.3	58.8	59.4	59.9	60.5	61.0	61.6	62.1
37.4	56.9	57.4	58.0	58.6	59.1	59.7	60.2	60.8	61.3	61.9	62.4
37.6	57.2	57.8	58.3	58.9	59.4	60.0	60.5	61.1	61.6	62.2	62.7
37.8	57.5	58.1	58.6	59.2	59.8	60.3	60.9	61.4	61.9	62.5	63.0
38.0	57.8	58.4	59.0	59.5	60.1	60.6	61.2	61.7	62.3	62.8	63.3
38.2	58.2	58.7	59.3	59.8	60.4	60.9	61.5	62.0	62.6	63.1	63.6
38.4	58.5	59.0	59.6	60.1	60.7	61.2	61.8	62.3	62.9	63.4	63.9
38.6	58.8	59.3	59.9	60.4	61.0	61.5	62.1	62.6	63.2	63.7	64.2
38.8	59.1	59.7	60.2	60.8	61.3	61.8	62.4	62.9	63.5	64.0	64.5
39.0	59.4	60.0	60.5	61.1	61.6	62.2	62.7	63.2	63.8	64.3	64.8
39.2	59.7	60.3	60.8	61.4	61.9	62.5	63.0	63.5	64.1	64.6	65.1
39.4	60.0	60.6	61.1	61.7	62.2	62.8	63.3	63.8	64.4	64.9	65.4
39.6	60.3	60.9	61.4	62.0	62.5	63.1	63.6	64.1	64.6	65.2	65.7
39.8	60.6	61.2	61.7	62.3	62.8	63.4	63.9	64.4	64.9	65.5	66.0
40.0	60.9	61.5	62.0	62.6	63.1	63.7	64.2	64.7	65.2	65.8	66.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.10	9.11	9.12	9.13	9.14	9.15	9.16	9.17	9.18	9.19	9.20
.0	9.43	9.63	9.83	10.03	10.24	10.46	10.68	10.90	11.12	11.35	11.59
.2	9.57	9.77	9.98	10.19	10.40	10.62	10.84	11.06	11.29	11.52	11.76
.4	9.72	9.92	10.13	10.34	10.56	10.78	11.00	11.23	11.46	11.69	11.93
.6	9.87	10.07	10.28	10.50	10.72	10.94	11.17	11.40	11.63	11.87	12.11
.8	10.0	10.2	10.4	10.7	10.9	11.1	11.3	11.6	11.8	12.0	12.3
1.0	10.2	10.4	10.6	10.8	11.0	11.3	11.5	11.7	12.0	12.2	12.5
1.2	10.3	10.5	10.8	11.0	11.2	11.4	11.7	11.9	12.2	12.4	12.7
1.4	10.5	10.7	10.9	11.1	11.4	11.6	11.8	12.1	12.3	12.6	12.8
1.6	10.6	10.9	11.1	11.3	11.5	11.8	12.0	12.3	12.5	12.8	13.0
1.8	10.8	11.0	11.2	11.5	11.7	12.0	12.2	12.4	12.7	13.0	13.2
2.0	11.0	11.2	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1	13.4
2.2	11.1	11.3	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.3	13.6
2.4	11.3	11.5	11.8	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8
2.6	11.4	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0
2.8	11.6	11.9	12.1	12.3	12.6	12.9	13.1	13.4	13.6	13.9	14.2
3.0	11.8	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1	14.4
3.2	12.0	12.2	12.5	12.7	13.0	13.2	13.5	13.8	14.0	14.3	14.6
3.4	12.1	12.4	12.6	12.9	13.2	13.4	13.7	14.0	14.2	14.5	14.8
3.6	12.3	12.6	12.8	13.1	13.3	13.6	13.9	14.2	14.4	14.7	15.0
3.8	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.4	14.6	14.9	15.2
4.0	12.7	12.9	13.2	13.5	13.7	14.0	14.3	14.6	14.9	15.1	15.4
4.2	12.9	13.1	13.4	13.6	13.9	14.2	14.5	14.8	15.1	15.4	15.7
4.4	13.0	13.3	13.6	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9
4.6	13.2	13.5	13.8	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1
4.8	13.4	13.7	14.0	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3
5.0	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5
5.2	13.8	14.1	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.8
5.4	14.0	14.3	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.7	17.0
5.6	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.3	16.6	16.9	17.2
5.8	14.4	14.7	15.0	15.2	15.5	15.9	16.2	16.5	16.8	17.1	17.5
6.0	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.4	17.7
6.2	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.3	17.6	17.9
6.4	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.2	17.5	17.8	18.2
6.6	15.2	15.5	15.8	16.1	16.4	16.7	17.1	17.4	17.7	18.1	18.4
6.8	15.4	15.7	16.0	16.3	16.6	17.0	17.3	17.6	18.0	18.3	18.6
7.0	15.6	15.9	16.2	16.5	16.9	17.2	17.5	17.8	18.2	18.5	18.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.10	9.11	9.12	9.13	9.14	9.15	9.16	9.17	9.18	9.19	9.20
7.0	15.6	15.9	16.2	16.5	16.9	17.2	17.5	17.8	18.2	18.5	18.9
7.2	15.8	16.1	16.4	16.8	17.1	17.4	17.7	18.1	18.4	18.8	19.1
7.4	16.0	16.3	16.7	17.0	17.3	17.6	18.0	18.3	18.7	19.0	19.4
7.6	16.2	16.6	16.9	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6
7.8	16.5	16.8	17.1	17.4	17.8	18.1	18.5	18.8	19.2	19.5	19.9
8.0	16.7	17.0	17.3	17.7	18.0	18.3	18.7	19.0	19.4	19.8	20.1
8.2	16.9	17.2	17.6	17.9	18.2	18.6	18.9	19.3	19.7	20.0	20.4
8.4	17.1	17.5	17.8	18.1	18.5	18.8	19.2	19.5	19.9	20.3	20.7
8.6	17.4	17.7	18.0	18.4	18.7	19.1	19.4	19.8	20.2	20.5	20.9
8.8	17.6	17.9	18.3	18.6	19.0	19.3	19.7	20.0	20.4	20.8	21.2
9.0	17.8	18.2	18.5	18.8	19.2	19.6	19.9	20.3	20.7	21.1	21.4
9.2	18.0	18.4	18.7	19.1	19.5	19.8	20.2	20.6	20.9	21.3	21.7
9.4	18.3	18.6	19.0	19.3	19.7	20.1	20.4	20.8	21.2	21.6	22.0
9.6	18.5	18.9	19.2	19.6	19.9	20.3	20.7	21.1	21.5	21.9	22.2
9.8	18.8	19.1	19.5	19.8	20.2	20.6	21.0	21.3	21.7	22.1	22.5
10.0	19.0	19.4	19.7	20.1	20.5	20.8	21.2	21.6	22.0	22.4	22.8
10.2	19.2	19.6	20.0	20.3	20.7	21.1	21.5	21.9	22.3	22.7	23.1
10.4	19.5	19.8	20.2	20.6	21.0	21.4	21.7	22.1	22.5	22.9	23.3
10.6	19.7	20.1	20.5	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6
10.8	20.0	20.3	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9
11.0	20.2	20.6	21.0	21.4	21.8	22.1	22.5	23.0	23.4	23.8	24.2
11.2	20.5	20.9	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.1	24.5
11.4	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.3	24.8
11.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.6	25.1
11.8	21.2	21.6	22.0	22.4	22.8	23.2	23.7	24.1	24.5	24.9	25.4
12.0	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.4	24.8	25.2	25.6
12.2	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.6	25.1	25.5	25.9
12.4	22.0	22.4	22.8	23.2	23.7	24.1	24.5	24.9	25.4	25.8	26.2
12.6	22.3	22.7	23.1	23.5	23.9	24.4	24.8	25.2	25.7	26.1	26.5
12.8	22.6	23.0	23.4	23.8	24.2	24.6	25.1	25.5	25.9	26.4	26.8
13.0	22.8	23.2	23.7	24.1	24.5	24.9	25.4	25.8	26.2	26.7	27.1
13.2	23.1	23.5	23.9	24.4	24.8	25.2	25.7	26.1	26.5	27.0	27.4
13.4	23.4	23.8	24.2	24.6	25.1	25.5	25.9	26.4	26.8	27.3	27.8
13.6	23.7	24.1	24.5	24.9	25.4	25.8	26.2	26.7	27.1	27.6	28.1
13.8	23.9	24.4	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9	28.4
14.0	24.2	24.6	25.1	25.5	25.9	26.4	26.8	27.3	27.7	28.2	28.7

TEMP DEG C	PH 9.10	9.11	9.12	9.13	9.14	9.15	9.16	9.17	9.18	9.19	9.20
14.0	24.2	24.6	25.1	25.5	25.9	26.4	26.8	27.3	27.7	28.2	28.7
14.2	24.5	24.9	25.4	25.8	26.2	26.7	27.1	27.6	28.1	28.5	29.0
14.4	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9	28.4	28.8	29.3
14.6	25.1	25.5	25.9	26.4	26.8	27.3	27.7	28.2	28.7	29.1	29.6
14.8	25.3	25.8	26.2	26.7	27.1	27.6	28.0	28.5	29.0	29.5	29.9
15.0	25.6	26.1	26.5	27.0	27.4	27.9	28.4	28.8	29.3	29.8	30.3
15.2	25.9	26.4	26.8	27.3	27.7	28.2	28.7	29.1	29.6	30.1	30.6
15.4	26.2	26.7	27.1	27.6	28.0	28.5	29.0	29.4	29.9	30.4	30.9
15.6	26.5	27.0	27.4	27.9	28.3	28.8	29.3	29.8	30.2	30.7	31.2
15.8	26.8	27.3	27.7	28.2	28.6	29.1	29.6	30.1	30.6	31.1	31.5
16.0	27.1	27.6	28.0	28.5	29.0	29.4	29.9	30.4	30.9	31.4	31.9
16.2	27.4	27.9	28.3	28.8	29.3	29.7	30.2	30.7	31.2	31.7	32.2
16.4	27.7	28.2	28.6	29.1	29.6	30.1	30.5	31.0	31.5	32.0	32.5
16.6	28.0	28.5	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9
16.8	28.3	28.8	29.2	29.7	30.2	30.7	31.2	31.7	32.2	32.7	33.2
17.0	28.6	29.1	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5
17.2	28.9	29.4	29.9	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.9
17.4	29.2	29.7	30.2	30.7	31.2	31.6	32.1	32.7	33.2	33.7	34.2
17.6	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5
17.8	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.9
18.0	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.2	34.7	35.2
18.2	30.5	30.9	31.4	31.9	32.4	32.9	33.5	34.0	34.5	35.0	35.5
18.4	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.8	35.3	35.9
18.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.2	35.7	36.2
18.8	31.4	31.9	32.4	32.9	33.4	33.9	34.4	35.0	35.5	36.0	36.6
19.0	31.7	32.2	32.7	33.2	33.7	34.3	34.8	35.3	35.8	36.4	36.9
19.2	32.0	32.5	33.0	33.6	34.1	34.6	35.1	35.6	36.2	36.7	37.2
19.4	32.4	32.9	33.4	33.9	34.4	34.9	35.5	36.0	36.5	37.0	37.6
19.6	32.7	33.2	33.7	34.2	34.7	35.3	35.8	36.3	36.9	37.4	37.9
19.8	33.0	33.5	34.0	34.5	35.1	35.6	36.1	36.7	37.2	37.7	38.3
20.0	33.3	33.8	34.4	34.9	35.4	35.9	36.5	37.0	37.5	38.1	38.6
20.2	33.7	34.2	34.7	35.2	35.7	36.3	36.8	37.3	37.9	38.4	39.0
20.4	34.0	34.5	35.0	35.5	36.1	36.6	37.1	37.7	38.2	38.8	39.3
20.6	34.3	34.8	35.4	35.9	36.4	36.9	37.5	38.0	38.6	39.1	39.7
20.8	34.6	35.2	35.7	36.2	36.7	37.3	37.8	38.4	38.9	39.5	40.0
21.0	35.0	35.5	36.0	36.6	37.1	37.6	38.2	38.7	39.3	39.8	40.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.10	9.11	9.12	9.13	9.14	9.15	9.16	9.17	9.18	9.19	9.20
21.0	35.0	35.5	36.0	36.6	37.1	37.6	38.2	38.7	39.3	39.8	40.4
21.2	35.3	35.8	36.4	36.9	37.4	38.0	38.5	39.1	39.6	40.2	40.7
21.4	35.6	36.2	36.7	37.2	37.8	38.3	38.9	39.4	40.0	40.5	41.1
21.6	36.0	36.5	37.0	37.6	38.1	38.7	39.2	39.8	40.3	40.9	41.4
21.8	36.3	36.8	37.4	37.9	38.4	39.0	39.5	40.1	40.7	41.2	41.8
22.0	36.6	37.2	37.7	38.2	38.8	39.3	39.9	40.4	41.0	41.6	42.1
22.2	37.0	37.5	38.0	38.6	39.1	39.7	40.2	40.8	41.3	41.9	42.5
22.4	37.3	37.8	38.4	38.9	39.5	40.0	40.6	41.1	41.7	42.3	42.8
22.6	37.6	38.2	38.7	39.3	39.8	40.4	40.9	41.5	42.0	42.6	43.2
22.8	38.0	38.5	39.1	39.6	40.2	40.7	41.3	41.8	42.4	43.0	43.5
23.0	38.3	38.9	39.4	40.0	40.5	41.1	41.6	42.2	42.7	43.3	43.9
23.2	38.7	39.2	39.7	40.3	40.9	41.4	42.0	42.5	43.1	43.7	44.2
23.4	39.0	39.5	40.1	40.6	41.2	41.8	42.3	42.9	43.5	44.0	44.6
23.6	39.3	39.9	40.4	41.0	41.5	42.1	42.7	43.2	43.8	44.4	44.9
23.8	39.7	40.2	40.8	41.3	41.9	42.5	43.0	43.6	44.2	44.7	45.3
24.0	40.0	40.6	41.1	41.7	42.2	42.8	43.4	43.9	44.5	45.1	45.6
24.2	40.4	40.9	41.5	42.0	42.6	43.2	43.7	44.3	44.9	45.4	46.0
24.4	40.7	41.3	41.8	42.4	42.9	43.5	44.1	44.6	45.2	45.8	46.4
24.6	41.0	41.6	42.2	42.7	43.3	43.9	44.4	45.0	45.6	46.1	46.7
24.8	41.4	41.9	42.5	43.1	43.6	44.2	44.8	45.3	45.9	46.5	47.1
25.0	41.7	42.3	42.9	43.4	44.0	44.6	45.1	45.7	46.3	46.8	47.4
25.2	42.1	42.6	43.2	43.8	44.3	44.9	45.5	46.0	46.6	47.2	47.8
25.4	42.4	43.0	43.5	44.1	44.7	45.2	45.8	46.4	47.0	47.5	48.1
25.6	42.8	43.3	43.9	44.5	45.0	45.6	46.2	46.7	47.3	47.9	48.5
25.8	43.1	43.7	44.2	44.8	45.4	45.9	46.5	47.1	47.7	48.2	48.8
26.0	43.4	44.0	44.6	45.2	45.7	46.3	46.9	47.4	48.0	48.6	49.2
26.2	43.8	44.4	44.9	45.5	46.1	46.6	47.2	47.8	48.4	48.9	49.5
26.4	44.1	44.7	45.3	45.8	46.4	47.0	47.6	48.1	48.7	49.3	49.9
26.6	44.5	45.1	45.6	46.2	46.8	47.3	47.9	48.5	49.1	49.6	50.2
26.8	44.8	45.4	46.0	46.5	47.1	47.7	48.3	48.8	49.4	50.0	50.6
27.0	45.2	45.7	46.3	46.9	47.5	48.0	48.6	49.2	49.8	50.3	50.9
27.2	45.5	46.1	46.7	47.2	47.8	48.4	49.0	49.5	50.1	50.7	51.3
27.4	45.9	46.4	47.0	47.6	48.2	48.7	49.3	49.9	50.5	51.0	51.6
27.6	46.2	46.8	47.4	47.9	48.5	49.1	49.7	50.2	50.8	51.4	52.0
27.8	46.6	47.1	47.7	48.3	48.9	49.4	50.0	50.6	51.2	51.7	52.3
28.0	46.9	47.5	48.1	48.6	49.2	49.8	50.4	50.9	51.5	52.1	52.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.10	9.11	9.12	9.13	9.14	9.15	9.16	9.17	9.18	9.19	9.20
28.0	46.9	47.5	48.1	48.6	49.2	49.8	50.4	50.9	51.5	52.1	52.7
28.2	47.2	47.8	48.4	49.0	49.5	50.1	50.7	51.3	51.8	52.4	53.0
28.4	47.6	48.2	48.7	49.3	49.9	50.5	51.0	51.6	52.2	52.8	53.3
28.6	47.9	48.5	49.1	49.7	50.2	50.8	51.4	52.0	52.5	53.1	53.7
28.8	48.3	48.9	49.4	50.0	50.6	51.2	51.7	52.3	52.9	53.5	54.0
29.0	48.6	49.2	49.8	50.4	50.9	51.5	52.1	52.7	53.2	53.8	54.4
29.2	49.0	49.5	50.1	50.7	51.3	51.8	52.4	53.0	53.6	54.1	54.7
29.4	49.3	49.9	50.5	51.0	51.6	52.2	52.8	53.3	53.9	54.5	55.1
29.6	49.7	50.2	50.8	51.4	52.0	52.5	53.1	53.7	54.2	54.8	55.4
29.8	50.0	50.6	51.1	51.7	52.3	52.9	53.4	54.0	54.6	55.2	55.7
30.0	50.3	50.9	51.5	52.1	52.6	53.2	53.8	54.4	54.9	55.5	56.1
30.2	50.7	51.3	51.8	52.4	53.0	53.6	54.1	54.7	55.3	55.8	56.4
30.4	51.0	51.6	52.2	52.7	53.3	53.9	54.5	55.0	55.6	56.2	56.7
30.6	51.4	51.9	52.5	53.1	53.7	54.2	54.8	55.4	55.9	56.5	57.1
30.8	51.7	52.3	52.9	53.4	54.0	54.6	55.1	55.7	56.3	56.8	57.4
31.0	52.0	52.6	53.2	53.8	54.3	54.9	55.5	56.0	56.6	57.2	57.7
31.2	52.4	53.0	53.5	54.1	54.7	55.2	55.8	56.4	56.9	57.5	58.1
31.4	52.7	53.3	53.9	54.4	55.0	55.6	56.1	56.7	57.3	57.8	58.4
31.6	53.1	53.6	54.2	54.8	55.3	55.9	56.5	57.0	57.6	58.2	58.7
31.8	53.4	54.0	54.5	55.1	55.7	56.2	56.8	57.4	57.9	58.5	59.1
32.0	53.7	54.3	54.9	55.4	56.0	56.6	57.1	57.7	58.3	58.8	59.4
32.2	54.1	54.6	55.2	55.8	56.3	56.9	57.5	58.0	58.6	59.1	59.7
32.4	54.4	55.0	55.5	56.1	56.7	57.2	57.8	58.4	58.9	59.5	60.0
32.6	54.7	55.3	55.9	56.4	57.0	57.6	58.1	58.7	59.2	59.8	60.3
32.8	55.1	55.6	56.2	56.8	57.3	57.9	58.5	59.0	59.6	60.1	60.7
33.0	55.4	56.0	56.5	57.1	57.7	58.2	58.8	59.3	59.9	60.4	61.0
33.2	55.7	56.3	56.9	57.4	58.0	58.5	59.1	59.7	60.2	60.8	61.3
33.4	56.1	56.6	57.2	57.7	58.3	58.9	59.4	60.0	60.5	61.1	61.6
33.6	56.4	56.9	57.5	58.1	58.6	59.2	59.7	60.3	60.8	61.4	61.9
33.8	56.7	57.3	57.8	58.4	59.0	59.5	60.1	60.6	61.2	61.7	62.3
34.0	57.0	57.6	58.2	58.7	59.3	59.8	60.4	60.9	61.5	62.0	62.6
34.2	57.4	57.9	58.5	59.0	59.6	60.2	60.7	61.3	61.8	62.3	62.9
34.4	57.7	58.3	58.8	59.4	59.9	60.5	61.0	61.6	62.1	62.7	63.2
34.6	58.0	58.6	59.1	59.7	60.2	60.8	61.3	61.9	62.4	63.0	63.5
34.8	58.3	58.9	59.5	60.0	60.6	61.1	61.7	62.2	62.7	63.3	63.8
35.0	58.7	59.2	59.8	60.3	60.9	61.4	62.0	62.5	63.0	63.6	64.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.10	9.11	9.12	9.13	9.14	9.15	9.16	9.17	9.18	9.19	9.20
35.0	58.7	59.2	59.8	60.3	60.9	61.4	62.0	62.5	63.0	63.6	64.1
35.2	59.0	59.5	60.1	60.6	61.2	61.7	62.3	62.8	63.3	63.9	64.4
35.4	59.3	59.9	60.4	61.0	61.5	62.0	62.6	63.1	63.7	64.2	64.7
35.6	59.6	60.2	60.7	61.3	61.8	62.4	62.9	63.4	64.0	64.5	65.0
35.8	59.9	60.5	61.0	61.6	62.1	62.7	63.2	63.7	64.3	64.8	65.3
36.0	60.2	60.8	61.3	61.9	62.4	63.0	63.5	64.0	64.6	65.1	65.6
36.2	60.6	61.1	61.7	62.2	62.7	63.3	63.8	64.3	64.9	65.4	65.9
36.4	60.9	61.4	62.0	62.5	63.0	63.6	64.1	64.6	65.2	65.7	66.2
36.6	61.2	61.7	62.3	62.8	63.3	63.9	64.4	64.9	65.5	66.0	66.5
36.8	61.5	62.0	62.6	63.1	63.7	64.2	64.7	65.2	65.8	66.3	66.8
37.0	61.8	62.3	62.9	63.4	64.0	64.5	65.0	65.5	66.0	66.6	67.1
37.2	62.1	62.7	63.2	63.7	64.3	64.8	65.3	65.8	66.3	66.9	67.4
37.4	62.4	63.0	63.5	64.0	64.6	65.1	65.6	66.1	66.6	67.1	67.6
37.6	62.7	63.3	63.8	64.3	64.9	65.4	65.9	66.4	66.9	67.4	67.9
37.8	63.0	63.6	64.1	64.6	65.1	65.7	66.2	66.7	67.2	67.7	68.2
38.0	63.3	63.9	64.4	64.9	65.4	66.0	66.5	67.0	67.5	68.0	68.5
38.2	63.6	64.2	64.7	65.2	65.7	66.3	66.8	67.3	67.8	68.3	68.8
38.4	63.9	64.5	65.0	65.5	66.0	66.5	67.1	67.6	68.1	68.6	69.1
38.6	64.2	64.8	65.3	65.8	66.3	66.8	67.3	67.8	68.3	68.8	69.3
38.8	64.5	65.0	65.6	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6
39.0	64.8	65.3	65.9	66.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9
39.2	65.1	65.6	66.2	66.7	67.2	67.7	68.2	68.7	69.2	69.7	70.1
39.4	65.4	65.9	66.4	66.9	67.5	68.0	68.5	69.0	69.4	69.9	70.4
39.6	65.7	66.2	66.7	67.2	67.7	68.2	68.7	69.2	69.7	70.2	70.7
39.8	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	70.9
40.0	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3	70.7	71.2

TEMP DEG C	PH 9.20	9.21	9.22	9.23	9.24	9.25	9.26	9.27	9.28	9.29	9.30
.0	11.6	11.8	12.1	12.3	12.6	12.8	13.1	13.3	13.6	13.9	14.2
.2	11.8	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.4
.4	11.9	12.2	12.4	12.7	12.9	13.2	13.5	13.7	14.0	14.3	14.6
.6	12.1	12.4	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.5	14.8
.8	12.3	12.5	12.8	13.1	13.3	13.6	13.9	14.1	14.4	14.7	15.0
1.0	12.5	12.7	13.0	13.2	13.5	13.8	14.1	14.3	14.6	14.9	15.2
1.2	12.7	12.9	13.2	13.4	13.7	14.0	14.3	14.5	14.8	15.1	15.4
1.4	12.8	13.1	13.4	13.6	13.9	14.2	14.5	14.8	15.0	15.3	15.6
1.6	13.0	13.3	13.6	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9
1.8	13.2	13.5	13.8	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1
2.0	13.4	13.7	14.0	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3
2.2	13.6	13.9	14.2	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5
2.4	13.8	14.1	14.4	14.6	14.9	15.2	15.5	15.8	16.1	16.5	16.8
2.6	14.0	14.3	14.6	14.9	15.1	15.4	15.7	16.1	16.4	16.7	17.0
2.8	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.2
3.0	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1	17.5
3.2	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.1	17.4	17.7
3.4	14.8	15.1	15.4	15.7	16.0	16.3	16.6	17.0	17.3	17.6	18.0
3.6	15.0	15.3	15.6	15.9	16.2	16.5	16.9	17.2	17.5	17.9	18.2
3.8	15.2	15.5	15.8	16.1	16.5	16.8	17.1	17.4	17.8	18.1	18.4
4.0	15.4	15.7	16.1	16.4	16.7	17.0	17.3	17.7	18.0	18.3	18.7
4.2	15.7	16.0	16.3	16.6	16.9	17.2	17.6	17.9	18.2	18.6	18.9
4.4	15.9	16.2	16.5	16.8	17.1	17.5	17.8	18.1	18.5	18.8	19.2
4.6	16.1	16.4	16.7	17.0	17.4	17.7	18.0	18.4	18.7	19.1	19.4
4.8	16.3	16.6	17.0	17.3	17.6	17.9	18.3	18.6	19.0	19.3	19.7
5.0	16.5	16.9	17.2	17.5	17.8	18.2	18.5	18.9	19.2	19.6	20.0
5.2	16.8	17.1	17.4	17.7	18.1	18.4	18.8	19.1	19.5	19.9	20.2
5.4	17.0	17.3	17.6	18.0	18.3	18.7	19.0	19.4	19.7	20.1	20.5
5.6	17.2	17.5	17.9	18.2	18.6	18.9	19.3	19.6	20.0	20.4	20.8
5.8	17.5	17.8	18.1	18.5	18.8	19.2	19.5	19.9	20.3	20.6	21.0
6.0	17.7	18.0	18.4	18.7	19.1	19.4	19.8	20.2	20.5	20.9	21.3
6.2	17.9	18.3	18.6	19.0	19.3	19.7	20.0	20.4	20.8	21.2	21.6
6.4	18.2	18.5	18.9	19.2	19.6	19.9	20.3	20.7	21.1	21.4	21.8
6.6	18.4	18.7	19.1	19.5	19.8	20.2	20.6	20.9	21.3	21.7	22.1
6.8	18.6	19.0	19.3	19.7	20.1	20.4	20.8	21.2	21.6	22.0	22.4
7.0	18.9	19.2	19.6	20.0	20.3	20.7	21.1	21.5	21.9	22.3	22.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.20	9.21	9.22	9.23	9.24	9.25	9.26	9.27	9.28	9.29	9.30
7.0	18.9	19.2	19.6	20.0	20.3	20.7	21.1	21.5	21.9	22.3	22.7
7.2	19.1	19.5	19.9	20.2	20.6	21.0	21.4	21.7	22.1	22.5	22.9
7.4	19.4	19.7	20.1	20.5	20.9	21.2	21.6	22.0	22.4	22.8	23.2
7.6	19.6	20.0	20.4	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5
7.8	19.9	20.3	20.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8
8.0	20.1	20.5	20.9	21.3	21.7	22.1	22.4	22.9	23.3	23.7	24.1
8.2	20.4	20.8	21.2	21.5	21.9	22.3	22.7	23.1	23.5	24.0	24.4
8.4	20.7	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.3	24.7
8.6	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.5	25.0
8.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.8	25.3
9.0	21.4	21.8	22.2	22.6	23.0	23.4	23.9	24.3	24.7	25.1	25.6
9.2	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.6	25.0	25.4	25.9
9.4	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.9	25.3	25.7	26.2
9.6	22.2	22.6	23.1	23.5	23.9	24.3	24.7	25.2	25.6	26.0	26.5
9.8	22.5	22.9	23.3	23.7	24.2	24.6	25.0	25.5	25.9	26.3	26.8
10.0	22.8	23.2	23.6	24.0	24.5	24.9	25.3	25.8	26.2	26.6	27.1
10.2	23.1	23.5	23.9	24.3	24.7	25.2	25.6	26.1	26.5	27.0	27.4
10.4	23.3	23.8	24.2	24.6	25.0	25.5	25.9	26.4	26.8	27.3	27.7
10.6	23.6	24.0	24.5	24.9	25.3	25.8	26.2	26.7	27.1	27.6	28.0
10.8	23.9	24.3	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9	28.3
11.0	24.2	24.6	25.1	25.5	25.9	26.4	26.8	27.3	27.7	28.2	28.7
11.2	24.5	24.9	25.3	25.8	26.2	26.7	27.1	27.6	28.0	28.5	29.0
11.4	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9	28.4	28.8	29.3
11.6	25.1	25.5	25.9	26.4	26.8	27.3	27.7	28.2	28.7	29.2	29.6
11.8	25.4	25.8	26.2	26.7	27.1	27.6	28.1	28.5	29.0	29.5	30.0
12.0	25.6	26.1	26.5	27.0	27.4	27.9	28.4	28.8	29.3	29.8	30.3
12.2	25.9	26.4	26.8	27.3	27.8	28.2	28.7	29.2	29.6	30.1	30.6
12.4	26.2	26.7	27.1	27.6	28.1	28.5	29.0	29.5	30.0	30.4	30.9
12.6	26.5	27.0	27.4	27.9	28.4	28.8	29.3	29.8	30.3	30.8	31.3
12.8	26.8	27.3	27.8	28.2	28.7	29.2	29.6	30.1	30.6	31.1	31.6
13.0	27.1	27.6	28.1	28.5	29.0	29.5	30.0	30.4	30.9	31.4	31.9
13.2	27.4	27.9	28.4	28.8	29.3	29.8	30.3	30.8	31.3	31.8	32.3
13.4	27.8	28.2	28.7	29.2	29.6	30.1	30.6	31.1	31.6	32.1	32.6
13.6	28.1	28.5	29.0	29.5	30.0	30.4	30.9	31.4	31.9	32.4	32.9
13.8	28.4	28.8	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3
14.0	28.7	29.2	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.20	9.21	9.22	9.23	9.24	9.25	9.26	9.27	9.28	9.29	9.30
14.0	28.7	29.2	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6
14.2	29.0	29.5	30.0	30.4	30.9	31.4	31.9	32.4	32.9	33.4	34.0
14.4	29.3	29.8	30.3	30.8	31.3	31.7	32.2	32.8	33.3	33.8	34.3
14.6	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6
14.8	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.5	35.0
15.0	30.3	30.7	31.2	31.7	32.2	32.7	33.3	33.8	34.3	34.8	35.3
15.2	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.1	35.7
15.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	35.0	35.5	36.0
15.6	31.2	31.7	32.2	32.7	33.2	33.7	34.3	34.8	35.3	35.8	36.4
15.8	31.5	32.0	32.6	33.1	33.6	34.1	34.6	35.1	35.7	36.2	36.7
16.0	31.9	32.4	32.9	33.4	33.9	34.4	34.9	35.5	36.0	36.5	37.1
16.2	32.2	32.7	33.2	33.7	34.2	34.8	35.3	35.8	36.3	36.9	37.4
16.4	32.5	33.0	33.5	34.1	34.6	35.1	35.6	36.2	36.7	37.2	37.8
16.6	32.9	33.4	33.9	34.4	34.9	35.4	36.0	36.5	37.0	37.6	38.1
16.8	33.2	33.7	34.2	34.7	35.3	35.8	36.3	36.9	37.4	37.9	38.5
17.0	33.5	34.0	34.6	35.1	35.6	36.1	36.7	37.2	37.7	38.3	38.8
17.2	33.9	34.4	34.9	35.4	35.9	36.5	37.0	37.6	38.1	38.6	39.2
17.4	34.2	34.7	35.2	35.8	36.3	36.8	37.4	37.9	38.4	39.0	39.5
17.6	34.5	35.0	35.6	36.1	36.6	37.2	37.7	38.3	38.8	39.3	39.9
17.8	34.9	35.4	35.9	36.4	37.0	37.5	38.1	38.6	39.2	39.7	40.3
18.0	35.2	35.7	36.3	36.8	37.3	37.9	38.4	39.0	39.5	40.1	40.6
18.2	35.5	36.1	36.6	37.1	37.7	38.2	38.8	39.3	39.9	40.4	41.0
18.4	35.9	36.4	36.9	37.5	38.0	38.6	39.1	39.7	40.2	40.8	41.3
18.6	36.2	36.8	37.3	37.8	38.4	38.9	39.5	40.0	40.6	41.1	41.7
18.8	36.6	37.1	37.6	38.2	38.7	39.3	39.8	40.4	40.9	41.5	42.0
19.0	36.9	37.4	38.0	38.5	39.1	39.6	40.2	40.7	41.3	41.8	42.4
19.2	37.2	37.8	38.3	38.9	39.4	40.0	40.5	41.1	41.6	42.2	42.8
19.4	37.6	38.1	38.7	39.2	39.8	40.3	40.9	41.4	42.0	42.6	43.1
19.6	37.9	38.5	39.0	39.6	40.1	40.7	41.2	41.8	42.4	42.9	43.5
19.8	38.3	38.8	39.4	39.9	40.5	41.0	41.6	42.2	42.7	43.3	43.8
20.0	38.6	39.2	39.7	40.3	40.8	41.4	41.9	42.5	43.1	43.6	44.2
20.2	39.0	39.5	40.1	40.6	41.2	41.7	42.3	42.9	43.4	44.0	44.6
20.4	39.3	39.9	40.4	41.0	41.5	42.1	42.7	43.2	43.8	44.4	44.9
20.6	39.7	40.2	40.8	41.3	41.9	42.5	43.0	43.6	44.1	44.7	45.3
20.8	40.0	40.6	41.1	41.7	42.2	42.8	43.4	43.9	44.5	45.1	45.6
21.0	40.4	40.9	41.5	42.0	42.6	43.2	43.7	44.3	44.9	45.4	46.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.20	9.21	9.22	9.23	9.24	9.25	9.26	9.27	9.28	9.29	9.30
21.0	40.4	40.9	41.5	42.0	42.6	43.2	43.7	44.3	44.9	45.4	46.0
21.2	40.7	41.3	41.8	42.4	43.0	43.5	44.1	44.7	45.2	45.8	46.4
21.4	41.1	41.6	42.2	42.7	43.3	43.9	44.4	45.0	45.6	46.2	46.7
21.6	41.4	42.0	42.5	43.1	43.7	44.2	44.8	45.4	45.9	46.5	47.1
21.8	41.8	42.3	42.9	43.5	44.0	44.6	45.2	45.7	46.3	46.9	47.4
22.0	42.1	42.7	43.2	43.8	44.4	44.9	45.5	46.1	46.7	47.2	47.8
22.2	42.5	43.0	43.6	44.2	44.7	45.3	45.9	46.4	47.0	47.6	48.2
22.4	42.8	43.4	44.0	44.5	45.1	45.7	46.2	46.8	47.4	48.0	48.5
22.6	43.2	43.7	44.3	44.9	45.4	46.0	46.6	47.2	47.7	48.3	48.9
22.8	43.5	44.1	44.7	45.2	45.8	46.4	46.9	47.5	48.1	48.7	49.2
23.0	43.9	44.4	45.0	45.6	46.2	46.7	47.3	47.9	48.5	49.0	49.6
23.2	44.2	44.8	45.4	45.9	46.5	47.1	47.7	48.2	48.8	49.4	50.0
23.4	44.6	45.2	45.7	46.3	46.9	47.4	48.0	48.6	49.2	49.7	50.3
23.6	44.9	45.5	46.1	46.7	47.2	47.8	48.4	49.0	49.5	50.1	50.7
23.8	45.3	45.9	46.4	47.0	47.6	48.2	48.7	49.3	49.9	50.5	51.0
24.0	45.6	46.2	46.8	47.4	47.9	48.5	49.1	49.7	50.2	50.8	51.4
24.2	46.0	46.6	47.1	47.7	48.3	48.9	49.4	50.0	50.6	51.2	51.7
24.4	46.4	46.9	47.5	48.1	48.6	49.2	49.8	50.4	50.9	51.5	52.1
24.6	46.7	47.3	47.9	48.4	49.0	49.6	50.2	50.7	51.3	51.9	52.5
24.8	47.1	47.6	48.2	48.8	49.4	49.9	50.5	51.1	51.7	52.2	52.8
25.0	47.4	48.0	48.6	49.1	49.7	50.3	50.9	51.4	52.0	52.6	53.2
25.2	47.8	48.3	48.9	49.5	50.1	50.6	51.2	51.8	52.4	52.9	53.5
25.4	48.1	48.7	49.3	49.8	50.4	51.0	51.6	52.1	52.7	53.3	53.9
25.6	48.5	49.0	49.6	50.2	50.8	51.3	51.9	52.5	53.1	53.6	54.2
25.8	48.8	49.4	50.0	50.5	51.1	51.7	52.3	52.8	53.4	54.0	54.6
26.0	49.2	49.7	50.3	50.9	51.5	52.0	52.6	53.2	53.8	54.3	54.9
26.2	49.5	50.1	50.7	51.2	51.8	52.4	53.0	53.5	54.1	54.7	55.3
26.4	49.9	50.4	51.0	51.6	52.2	52.7	53.3	53.9	54.5	55.0	55.6
26.6	50.2	50.8	51.4	51.9	52.5	53.1	53.7	54.2	54.8	55.4	55.9
26.8	50.6	51.1	51.7	52.3	52.9	53.4	54.0	54.6	55.2	55.7	56.3
27.0	50.9	51.5	52.1	52.6	53.2	53.8	54.4	54.9	55.5	56.1	56.6
27.2	51.3	51.8	52.4	53.0	53.6	54.1	54.7	55.3	55.8	56.4	57.0
27.4	51.6	52.2	52.8	53.3	53.9	54.5	55.0	55.6	56.2	56.8	57.3
27.6	52.0	52.5	53.1	53.7	54.3	54.8	55.4	56.0	56.5	57.1	57.7
27.8	52.3	52.9	53.5	54.0	54.6	55.2	55.7	56.3	56.9	57.4	58.0
28.0	52.7	53.2	53.8	54.4	54.9	55.5	56.1	56.6	57.2	57.8	58.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.20	9.21	9.22	9.23	9.24	9.25	9.26	9.27	9.28	9.29	9.30
28.0	52.7	53.2	53.8	54.4	54.9	55.5	56.1	56.6	57.2	57.8	58.3
28.2	53.0	53.6	54.1	54.7	55.3	55.9	56.4	57.0	57.5	58.1	58.7
28.4	53.3	53.9	54.5	55.1	55.6	56.2	56.8	57.3	57.9	58.4	59.0
28.6	53.7	54.3	54.8	55.4	56.0	56.5	57.1	57.7	58.2	58.8	59.3
28.8	54.0	54.6	55.2	55.7	56.3	56.9	57.4	58.0	58.6	59.1	59.7
29.0	54.4	54.9	55.5	56.1	56.6	57.2	57.8	58.3	58.9	59.4	60.0
29.2	54.7	55.3	55.8	56.4	57.0	57.5	58.1	58.7	59.2	59.8	60.3
29.4	55.1	55.6	56.2	56.8	57.3	57.9	58.4	59.0	59.6	60.1	60.7
29.6	55.4	56.0	56.5	57.1	57.7	58.2	58.8	59.3	59.9	60.4	61.0
29.8	55.7	56.3	56.9	57.4	58.0	58.5	59.1	59.7	60.2	60.8	61.3
30.0	56.1	56.6	57.2	57.8	58.3	58.9	59.4	60.0	60.5	61.1	61.6
30.2	56.4	57.0	57.5	58.1	58.7	59.2	59.8	60.3	60.9	61.4	62.0
30.4	56.7	57.3	57.9	58.4	59.0	59.5	60.1	60.6	61.2	61.7	62.3
30.6	57.1	57.6	58.2	58.8	59.3	59.9	60.4	61.0	61.5	62.1	62.6
30.8	57.4	58.0	58.5	59.1	59.6	60.2	60.7	61.3	61.8	62.4	62.9
31.0	57.7	58.3	58.9	59.4	60.0	60.5	61.1	61.6	62.2	62.7	63.2
31.2	58.1	58.6	59.2	59.7	60.3	60.8	61.4	61.9	62.5	63.0	63.5
31.4	58.4	59.0	59.5	60.1	60.6	61.2	61.7	62.3	62.8	63.3	63.9
31.6	58.7	59.3	59.8	60.4	60.9	61.5	62.0	62.6	63.1	63.6	64.2
31.8	59.1	59.6	60.2	60.7	61.3	61.8	62.3	62.9	63.4	64.0	64.5
32.0	59.4	59.9	60.5	61.0	61.6	62.1	62.7	63.2	63.7	64.3	64.8
32.2	59.7	60.3	60.8	61.4	61.9	62.4	63.0	63.5	64.0	64.6	65.1
32.4	60.0	60.6	61.1	61.7	62.2	62.8	63.3	63.8	64.4	64.9	65.4
32.6	60.3	60.9	61.4	62.0	62.5	63.1	63.6	64.1	64.7	65.2	65.7
32.8	60.7	61.2	61.8	62.3	62.8	63.4	63.9	64.4	65.0	65.5	66.0
33.0	61.0	61.5	62.1	62.6	63.2	63.7	64.2	64.8	65.3	65.8	66.3
33.2	61.3	61.9	62.4	62.9	63.5	64.0	64.5	65.1	65.6	66.1	66.6
33.4	61.6	62.2	62.7	63.2	63.8	64.3	64.8	65.4	65.9	66.4	66.9
33.6	61.9	62.5	63.0	63.6	64.1	64.6	65.1	65.7	66.2	66.7	67.2
33.8	62.3	62.8	63.3	63.9	64.4	64.9	65.4	66.0	66.5	67.0	67.5
34.0	62.6	63.1	63.6	64.2	64.7	65.2	65.7	66.3	66.8	67.3	67.8
34.2	62.9	63.4	63.9	64.5	65.0	65.5	66.0	66.6	67.1	67.6	68.1
34.4	63.2	63.7	64.3	64.8	65.3	65.8	66.3	66.9	67.4	67.9	68.4
34.6	63.5	64.0	64.6	65.1	65.6	66.1	66.6	67.1	67.7	68.2	68.7
34.8	63.8	64.3	64.9	65.4	65.9	66.4	66.9	67.4	67.9	68.4	68.9
35.0	64.1	64.6	65.2	65.7	66.2	66.7	67.2	67.7	68.2	68.7	69.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.20	9.21	9.22	9.23	9.24	9.25	9.26	9.27	9.28	9.29	9.30
35.0	64.1	64.6	65.2	65.7	66.2	66.7	67.2	67.7	68.2	68.7	69.2
35.2	64.4	64.9	65.5	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5
35.4	64.7	65.2	65.8	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8
35.6	65.0	65.5	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1
35.8	65.3	65.8	66.3	66.9	67.4	67.9	68.4	68.9	69.4	69.8	70.3
36.0	65.6	66.1	66.6	67.2	67.7	68.2	68.7	69.2	69.6	70.1	70.6
36.2	65.9	66.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.9
36.4	66.2	66.7	67.2	67.7	68.2	68.7	69.2	69.7	70.2	70.7	71.1
36.6	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	70.9	71.4
36.8	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3	70.7	71.2	71.7
37.0	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.5	71.0	71.5	71.9
37.2	67.4	67.9	68.4	68.9	69.4	69.8	70.3	70.8	71.3	71.7	72.2
37.4	67.6	68.1	68.6	69.1	69.6	70.1	70.6	71.1	71.5	72.0	72.5
37.6	67.9	68.4	68.9	69.4	69.9	70.4	70.9	71.3	71.8	72.3	72.7
37.8	68.2	68.7	69.2	69.7	70.2	70.7	71.1	71.6	72.1	72.5	73.0
38.0	68.5	69.0	69.5	70.0	70.4	70.9	71.4	71.9	72.3	72.8	73.2
38.2	68.8	69.3	69.8	70.2	70.7	71.2	71.7	72.1	72.6	73.0	73.5
38.4	69.1	69.5	70.0	70.5	71.0	71.5	71.9	72.4	72.8	73.3	73.7
38.6	69.3	69.8	70.3	70.8	71.3	71.7	72.2	72.6	73.1	73.6	74.0
38.8	69.6	70.1	70.6	71.0	71.5	72.0	72.4	72.9	73.4	73.8	74.2
39.0	69.9	70.4	70.8	71.3	71.8	72.2	72.7	73.2	73.6	74.1	74.5
39.2	70.1	70.6	71.1	71.6	72.0	72.5	73.0	73.4	73.9	74.3	74.7
39.4	70.4	70.9	71.4	71.8	72.3	72.8	73.2	73.7	74.1	74.5	75.0
39.6	70.7	71.2	71.6	72.1	72.6	73.0	73.5	73.9	74.3	74.8	75.2
39.8	70.9	71.4	71.9	72.3	72.8	73.3	73.7	74.2	74.6	75.0	75.5
40.0	71.2	71.7	72.1	72.6	73.1	73.5	74.0	74.4	74.8	75.3	75.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.30	9.31	9.32	9.33	9.34	9.35	9.36	9.37	9.38	9.39	9.40
.0	14.2	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.6	16.9	17.2
.2	14.4	14.7	14.9	15.2	15.5	15.8	16.2	16.5	16.8	17.1	17.4
.4	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.3	17.7
.6	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.3	17.6	17.9
.8	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.2	17.5	17.8	18.2
1.0	15.2	15.5	15.8	16.1	16.4	16.8	17.1	17.4	17.7	18.1	18.4
1.2	15.4	15.7	16.0	16.4	16.7	17.0	17.3	17.7	18.0	18.3	18.7
1.4	15.6	16.0	16.3	16.6	16.9	17.2	17.6	17.9	18.2	18.6	18.9
1.6	15.9	16.2	16.5	16.8	17.1	17.5	17.8	18.1	18.5	18.8	19.2
1.8	16.1	16.4	16.7	17.0	17.4	17.7	18.0	18.4	18.7	19.1	19.4
2.0	16.3	16.6	17.0	17.3	17.6	18.0	18.3	18.6	19.0	19.3	19.7
2.2	16.5	16.9	17.2	17.5	17.9	18.2	18.5	18.9	19.2	19.6	20.0
2.4	16.8	17.1	17.4	17.8	18.1	18.4	18.8	19.1	19.5	19.9	20.2
2.6	17.0	17.3	17.7	18.0	18.3	18.7	19.0	19.4	19.8	20.1	20.5
2.8	17.2	17.6	17.9	18.2	18.6	18.9	19.3	19.7	20.0	20.4	20.8
3.0	17.5	17.8	18.2	18.5	18.8	19.2	19.6	19.9	20.3	20.7	21.1
3.2	17.7	18.1	18.4	18.7	19.1	19.5	19.8	20.2	20.6	20.9	21.3
3.4	18.0	18.3	18.6	19.0	19.4	19.7	20.1	20.5	20.8	21.2	21.6
3.6	18.2	18.5	18.9	19.3	19.6	20.0	20.3	20.7	21.1	21.5	21.9
3.8	18.4	18.8	19.1	19.5	19.9	20.2	20.6	21.0	21.4	21.8	22.2
4.0	18.7	19.0	19.4	19.8	20.1	20.5	20.9	21.3	21.7	22.0	22.4
4.2	18.9	19.3	19.7	20.0	20.4	20.8	21.2	21.5	21.9	22.3	22.7
4.4	19.2	19.6	19.9	20.3	20.7	21.0	21.4	21.8	22.2	22.6	23.0
4.6	19.4	19.8	20.2	20.6	20.9	21.3	21.7	22.1	22.5	22.9	23.3
4.8	19.7	20.1	20.4	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6
5.0	20.0	20.3	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9
5.2	20.2	20.6	21.0	21.4	21.8	22.1	22.5	22.9	23.4	23.8	24.2
5.4	20.5	20.9	21.2	21.6	22.0	22.4	22.8	23.2	23.7	24.1	24.5
5.6	20.8	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.4	24.8
5.8	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.7	25.1
6.0	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.5	25.0	25.4
6.2	21.6	22.0	22.3	22.8	23.2	23.6	24.0	24.4	24.8	25.3	25.7
6.4	21.8	22.2	22.6	23.0	23.4	23.9	24.3	24.7	25.1	25.6	26.0
6.6	22.1	22.5	22.9	23.3	23.7	24.2	24.6	25.0	25.4	25.9	26.3
6.8	22.4	22.8	23.2	23.6	24.0	24.4	24.9	25.3	25.7	26.2	26.6
7.0	22.7	23.1	23.5	23.9	24.3	24.7	25.2	25.6	26.1	26.5	27.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.30	9.31	9.32	9.33	9.34	9.35	9.36	9.37	9.38	9.39	9.40
7.0	22.7	23.1	23.5	23.9	24.3	24.7	25.2	25.6	26.1	26.5	27.0
7.2	22.9	23.4	23.8	24.2	24.6	25.0	25.5	25.9	26.4	26.8	27.3
7.4	23.2	23.6	24.1	24.5	24.9	25.3	25.8	26.2	26.7	27.1	27.6
7.6	23.5	23.9	24.4	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9
7.8	23.8	24.2	24.6	25.1	25.5	26.0	26.4	26.8	27.3	27.8	28.2
8.0	24.1	24.5	24.9	25.4	25.8	26.3	26.7	27.2	27.6	28.1	28.6
8.2	24.4	24.8	25.2	25.7	26.1	26.6	27.0	27.5	27.9	28.4	28.9
8.4	24.7	25.1	25.5	26.0	26.4	26.9	27.3	27.8	28.3	28.7	29.2
8.6	25.0	25.4	25.8	26.3	26.7	27.2	27.7	28.1	28.6	29.1	29.5
8.8	25.3	25.7	26.2	26.6	27.1	27.5	28.0	28.4	28.9	29.4	29.9
9.0	25.6	26.0	26.5	26.9	27.4	27.8	28.3	28.8	29.2	29.7	30.2
9.2	25.9	26.3	26.8	27.2	27.7	28.1	28.6	29.1	29.6	30.0	30.5
9.4	26.2	26.6	27.1	27.5	28.0	28.5	28.9	29.4	29.9	30.4	30.9
9.6	26.5	26.9	27.4	27.8	28.3	28.8	29.3	29.7	30.2	30.7	31.2
9.8	26.8	27.2	27.7	28.2	28.6	29.1	29.6	30.1	30.6	31.0	31.5
10.0	27.1	27.6	28.0	28.5	29.0	29.4	29.9	30.4	30.9	31.4	31.9
10.2	27.4	27.9	28.3	28.8	29.3	29.8	30.2	30.7	31.2	31.7	32.2
10.4	27.7	28.2	28.7	29.1	29.6	30.1	30.6	31.1	31.6	32.1	32.6
10.6	28.0	28.5	29.0	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9
10.8	28.3	28.8	29.3	29.8	30.3	30.7	31.2	31.7	32.2	32.7	33.2
11.0	28.7	29.1	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6
11.2	29.0	29.5	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9
11.4	29.3	29.8	30.3	30.8	31.2	31.7	32.2	32.8	33.3	33.8	34.3
11.6	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6
11.8	30.0	30.4	30.9	31.4	31.9	32.4	32.9	33.4	34.0	34.5	35.0
12.0	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.8	35.3
12.2	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.2	35.7
12.4	30.9	31.4	31.9	32.4	32.9	33.4	34.0	34.5	35.0	35.5	36.1
12.6	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.8	35.4	35.9	36.4
12.8	31.6	32.1	32.6	33.1	33.6	34.1	34.7	35.2	35.7	36.2	36.8
13.0	31.9	32.4	32.9	33.4	34.0	34.5	35.0	35.5	36.1	36.6	37.1
13.2	32.3	32.8	33.3	33.8	34.3	34.8	35.4	35.9	36.4	36.9	37.5
13.4	32.6	33.1	33.6	34.1	34.7	35.2	35.7	36.2	36.8	37.3	37.8
13.6	32.9	33.4	34.0	34.5	35.0	35.5	36.1	36.6	37.1	37.7	38.2
13.8	33.3	33.8	34.3	34.8	35.3	35.9	36.4	36.9	37.5	38.0	38.6
14.0	33.6	34.1	34.6	35.2	35.7	36.2	36.8	37.3	37.8	38.4	38.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.30	9.31	9.32	9.33	9.34	9.35	9.36	9.37	9.38	9.39	9.40
14.0	33.6	34.1	34.6	35.2	35.7	36.2	36.8	37.3	37.8	38.4	38.9
14.2	34.0	34.5	35.0	35.5	36.0	36.6	37.1	37.7	38.2	38.7	39.3
14.4	34.3	34.8	35.3	35.9	36.4	36.9	37.5	38.0	38.6	39.1	39.7
14.6	34.6	35.2	35.7	36.2	36.8	37.3	37.8	38.4	38.9	39.5	40.0
14.8	35.0	35.5	36.0	36.6	37.1	37.6	38.2	38.7	39.3	39.8	40.4
15.0	35.3	35.9	36.4	36.9	37.5	38.0	38.5	39.1	39.6	40.2	40.7
15.2	35.7	36.2	36.7	37.3	37.8	38.4	38.9	39.4	40.0	40.6	41.1
15.4	36.0	36.6	37.1	37.6	38.2	38.7	39.3	39.8	40.4	40.9	41.5
15.6	36.4	36.9	37.4	38.0	38.5	39.1	39.6	40.2	40.7	41.3	41.8
15.8	36.7	37.3	37.8	38.3	38.9	39.4	40.0	40.5	41.1	41.7	42.2
16.0	37.1	37.6	38.1	38.7	39.2	39.8	40.3	40.9	41.5	42.0	42.6
16.2	37.4	38.0	38.5	39.0	39.6	40.2	40.7	41.3	41.8	42.4	42.9
16.4	37.8	38.3	38.9	39.4	40.0	40.5	41.1	41.6	42.2	42.7	43.3
16.6	38.1	38.7	39.2	39.8	40.3	40.9	41.4	42.0	42.6	43.1	43.7
16.8	38.5	39.0	39.6	40.1	40.7	41.2	41.8	42.4	42.9	43.5	44.0
17.0	38.8	39.4	39.9	40.5	41.0	41.6	42.2	42.7	43.3	43.9	44.4
17.2	39.2	39.7	40.3	40.8	41.4	42.0	42.5	43.1	43.7	44.2	44.8
17.4	39.5	40.1	40.6	41.2	41.8	42.3	42.9	43.5	44.0	44.6	45.2
17.6	39.9	40.4	41.0	41.6	42.1	42.7	43.3	43.8	44.4	45.0	45.5
17.8	40.3	40.8	41.4	41.9	42.5	43.1	43.6	44.2	44.8	45.3	45.9
18.0	40.6	41.2	41.7	42.3	42.8	43.4	44.0	44.5	45.1	45.7	46.3
18.2	41.0	41.5	42.1	42.6	43.2	43.8	44.3	44.9	45.5	46.1	46.6
18.4	41.3	41.9	42.4	43.0	43.6	44.1	44.7	45.3	45.9	46.4	47.0
18.6	41.7	42.2	42.8	43.4	43.9	44.5	45.1	45.6	46.2	46.8	47.4
18.8	42.0	42.6	43.2	43.7	44.3	44.9	45.4	46.0	46.6	47.2	47.7
19.0	42.4	43.0	43.5	44.1	44.7	45.2	45.8	46.4	47.0	47.5	48.1
19.2	42.8	43.3	43.9	44.5	45.0	45.6	46.2	46.7	47.3	47.9	48.5
19.4	43.1	43.7	44.3	44.8	45.4	46.0	46.5	47.1	47.7	48.3	48.8
19.6	43.5	44.0	44.6	45.2	45.8	46.3	46.9	47.5	48.1	48.6	49.2
19.8	43.8	44.4	45.0	45.6	46.1	46.7	47.3	47.8	48.4	49.0	49.6
20.0	44.2	44.8	45.3	45.9	46.5	47.1	47.6	48.2	48.8	49.4	49.9
20.2	44.6	45.1	45.7	46.3	46.9	47.4	48.0	48.6	49.1	49.7	50.3
20.4	44.9	45.5	46.1	46.6	47.2	47.8	48.4	48.9	49.5	50.1	50.7
20.6	45.3	45.9	46.4	47.0	47.6	48.2	48.7	49.3	49.9	50.5	51.0
20.8	45.6	46.2	46.8	47.4	47.9	48.5	49.1	49.7	50.2	50.8	51.4
21.0	46.0	46.6	47.2	47.7	48.3	48.9	49.5	50.0	50.6	51.2	51.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.30	9.31	9.32	9.33	9.34	9.35	9.36	9.37	9.38	9.39	9.40
21.0	46.0	46.6	47.2	47.7	48.3	48.9	49.5	50.0	50.6	51.2	51.8
21.2	46.4	46.9	47.5	48.1	48.7	49.2	49.8	50.4	51.0	51.5	52.1
21.4	46.7	47.3	47.9	48.5	49.0	49.6	50.2	50.8	51.3	51.9	52.5
21.6	47.1	47.7	48.2	48.8	49.4	50.0	50.5	51.1	51.7	52.3	52.8
21.8	47.4	48.0	48.6	49.2	49.8	50.3	50.9	51.5	52.1	52.6	53.2
22.0	47.8	48.4	49.0	49.5	50.1	50.7	51.3	51.8	52.4	53.0	53.6
22.2	48.2	48.7	49.3	49.9	50.5	51.0	51.6	52.2	52.8	53.3	53.9
22.4	48.5	49.1	49.7	50.3	50.8	51.4	52.0	52.6	53.1	53.7	54.3
22.6	48.9	49.5	50.0	50.6	51.2	51.8	52.3	52.9	53.5	54.1	54.6
22.8	49.2	49.8	50.4	51.0	51.5	52.1	52.7	53.3	53.8	54.4	55.0
23.0	49.6	50.2	50.8	51.3	51.9	52.5	53.1	53.6	54.2	54.8	55.3
23.2	50.0	50.5	51.1	51.7	52.3	52.8	53.4	54.0	54.6	55.1	55.7
23.4	50.3	50.9	51.5	52.0	52.6	53.2	53.8	54.3	54.9	55.5	56.0
23.6	50.7	51.3	51.8	52.4	53.0	53.5	54.1	54.7	55.3	55.8	56.4
23.8	51.0	51.6	52.2	52.8	53.3	53.9	54.5	55.0	55.6	56.2	56.7
24.0	51.4	52.0	52.5	53.1	53.7	54.3	54.8	55.4	56.0	56.5	57.1
24.2	51.7	52.3	52.9	53.5	54.0	54.6	55.2	55.7	56.3	56.9	57.4
24.4	52.1	52.7	53.2	53.8	54.4	55.0	55.5	56.1	56.7	57.2	57.8
24.6	52.5	53.0	53.6	54.2	54.7	55.3	55.9	56.4	57.0	57.6	58.1
24.8	52.8	53.4	54.0	54.5	55.1	55.7	56.2	56.8	57.4	57.9	58.5
25.0	53.2	53.7	54.3	54.9	55.4	56.0	56.6	57.1	57.7	58.3	58.8
25.2	53.5	54.1	54.7	55.2	55.8	56.4	56.9	57.5	58.1	58.6	59.2
25.4	53.9	54.4	55.0	55.6	56.1	56.7	57.3	57.8	58.4	59.0	59.5
25.6	54.2	54.8	55.4	55.9	56.5	57.1	57.6	58.2	58.7	59.3	59.8
25.8	54.6	55.1	55.7	56.3	56.8	57.4	58.0	58.5	59.1	59.6	60.2
26.0	54.9	55.5	56.0	56.6	57.2	57.7	58.3	58.9	59.4	60.0	60.5
26.2	55.3	55.8	56.4	57.0	57.5	58.1	58.6	59.2	59.8	60.3	60.9
26.4	55.6	56.2	56.7	57.3	57.9	58.4	59.0	59.5	60.1	60.6	61.2
26.6	55.9	56.5	57.1	57.6	58.2	58.8	59.3	59.9	60.4	61.0	61.5
26.8	56.3	56.9	57.4	58.0	58.5	59.1	59.7	60.2	60.8	61.3	61.9
27.0	56.6	57.2	57.8	58.3	58.9	59.4	60.0	60.5	61.1	61.6	62.2
27.2	57.0	57.5	58.1	58.7	59.2	59.8	60.3	60.9	61.4	62.0	62.5
27.4	57.3	57.9	58.4	59.0	59.6	60.1	60.7	61.2	61.8	62.3	62.8
27.6	57.7	58.2	58.8	59.3	59.9	60.4	61.0	61.5	62.1	62.6	63.2
27.8	58.0	58.6	59.1	59.7	60.2	60.8	61.3	61.9	62.4	62.9	63.5
28.0	58.3	58.9	59.4	60.0	60.6	61.1	61.6	62.2	62.7	63.3	63.8

TEMP DEG C	PH 9.30	9.31	9.32	9.33	9.34	9.35	9.36	9.37	9.38	9.39	9.40
28.0	58.3	58.9	59.4	60.0	60.6	61.1	61.6	62.2	62.7	63.3	63.8
28.2	58.7	59.2	59.8	60.3	60.9	61.4	62.0	62.5	63.1	63.6	64.1
28.4	59.0	59.6	60.1	60.7	61.2	61.8	62.3	62.8	63.4	63.9	64.4
28.6	59.3	59.9	60.4	61.0	61.5	62.1	62.6	63.2	63.7	64.2	64.8
28.8	59.7	60.2	60.8	61.3	61.9	62.4	62.9	63.5	64.0	64.5	65.1
29.0	60.0	60.6	61.1	61.6	62.2	62.7	63.3	63.8	64.3	64.9	65.4
29.2	60.3	60.9	61.4	62.0	62.5	63.0	63.6	64.1	64.6	65.2	65.7
29.4	60.7	61.2	61.8	62.3	62.8	63.4	63.9	64.4	65.0	65.5	66.0
29.6	61.0	61.5	62.1	62.6	63.2	63.7	64.2	64.7	65.3	65.8	66.3
29.8	61.3	61.9	62.4	62.9	63.5	64.0	64.5	65.1	65.6	66.1	66.6
30.0	61.6	62.2	62.7	63.3	63.8	64.3	64.8	65.4	65.9	66.4	66.9
30.2	62.0	62.5	63.0	63.6	64.1	64.6	65.2	65.7	66.2	66.7	67.2
30.4	62.3	62.8	63.4	63.9	64.4	64.9	65.5	66.0	66.5	67.0	67.5
30.6	62.6	63.1	63.7	64.2	64.7	65.3	65.8	66.3	66.8	67.3	67.8
30.8	62.9	63.5	64.0	64.5	65.0	65.6	66.1	66.6	67.1	67.6	68.1
31.0	63.2	63.8	64.3	64.8	65.3	65.9	66.4	66.9	67.4	67.9	68.4
31.2	63.5	64.1	64.6	65.1	65.7	66.2	66.7	67.2	67.7	68.2	68.7
31.4	63.9	64.4	64.9	65.4	66.0	66.5	67.0	67.5	68.0	68.5	69.0
31.6	64.2	64.7	65.2	65.7	66.3	66.8	67.3	67.8	68.3	68.8	69.3
31.8	64.5	65.0	65.5	66.0	66.6	67.1	67.6	68.1	68.6	69.1	69.6
32.0	64.8	65.3	65.8	66.4	66.9	67.4	67.9	68.4	68.9	69.4	69.8
32.2	65.1	65.6	66.1	66.7	67.2	67.7	68.2	68.7	69.2	69.6	70.1
32.4	65.4	65.9	66.4	67.0	67.5	68.0	68.5	69.0	69.4	69.9	70.4
32.6	65.7	66.2	66.7	67.2	67.8	68.3	68.7	69.2	69.7	70.2	70.7
32.8	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0
33.0	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3	70.8	71.2
33.2	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.6	71.0	71.5
33.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.9	71.3	71.8
33.6	67.2	67.7	68.2	68.7	69.2	69.7	70.2	70.7	71.1	71.6	72.1
33.8	67.5	68.0	68.5	69.0	69.5	70.0	70.4	70.9	71.4	71.9	72.3
34.0	67.8	68.3	68.8	69.3	69.8	70.2	70.7	71.2	71.7	72.1	72.6
34.2	68.1	68.6	69.1	69.6	70.0	70.5	71.0	71.5	71.9	72.4	72.9
34.4	68.4	68.9	69.4	69.8	70.3	70.8	71.3	71.7	72.2	72.7	73.1
34.6	68.7	69.1	69.6	70.1	70.6	71.1	71.5	72.0	72.5	72.9	73.4
34.8	68.9	69.4	69.9	70.4	70.9	71.3	71.8	72.3	72.7	73.2	73.6
35.0	69.2	69.7	70.2	70.7	71.1	71.6	72.1	72.5	73.0	73.4	73.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.30	9.31	9.32	9.33	9.34	9.35	9.36	9.37	9.38	9.39	9.40
35.0	69.2	69.7	70.2	70.7	71.1	71.6	72.1	72.5	73.0	73.4	73.9
35.2	69.5	70.0	70.5	70.9	71.4	71.9	72.3	72.8	73.3	73.7	74.2
35.4	69.8	70.3	70.7	71.2	71.7	72.1	72.6	73.1	73.5	74.0	74.4
35.6	70.1	70.5	71.0	71.5	72.0	72.4	72.9	73.3	73.8	74.2	74.7
35.8	70.3	70.8	71.3	71.8	72.2	72.7	73.1	73.6	74.0	74.5	74.9
36.0	70.6	71.1	71.6	72.0	72.5	72.9	73.4	73.8	74.3	74.7	75.1
36.2	70.9	71.4	71.8	72.3	72.7	73.2	73.6	74.1	74.5	75.0	75.4
36.4	71.1	71.6	72.1	72.5	73.0	73.5	73.9	74.3	74.8	75.2	75.6
36.6	71.4	71.9	72.3	72.8	73.3	73.7	74.2	74.6	75.0	75.5	75.9
36.8	71.7	72.1	72.6	73.1	73.5	74.0	74.4	74.8	75.3	75.7	76.1
37.0	71.9	72.4	72.9	73.3	73.8	74.2	74.6	75.1	75.5	75.9	76.4
37.2	72.2	72.7	73.1	73.6	74.0	74.5	74.9	75.3	75.8	76.2	76.6
37.4	72.5	72.9	73.4	73.8	74.3	74.7	75.1	75.6	76.0	76.4	76.8
37.6	72.7	73.2	73.6	74.1	74.5	75.0	75.4	75.8	76.2	76.6	77.1
37.8	73.0	73.4	73.9	74.3	74.8	75.2	75.6	76.0	76.5	76.9	77.3
38.0	73.2	73.7	74.1	74.6	75.0	75.4	75.9	76.3	76.7	77.1	77.5
38.2	73.5	73.9	74.4	74.8	75.2	75.7	76.1	76.5	76.9	77.3	77.7
38.4	73.7	74.2	74.6	75.1	75.5	75.9	76.3	76.7	77.2	77.6	78.0
38.6	74.0	74.4	74.9	75.3	75.7	76.1	76.6	77.0	77.4	77.8	78.2
38.8	74.2	74.7	75.1	75.5	76.0	76.4	76.8	77.2	77.6	78.0	78.4
39.0	74.5	74.9	75.4	75.8	76.2	76.6	77.0	77.4	77.8	78.2	78.6
39.2	74.7	75.2	75.6	76.0	76.4	76.8	77.3	77.7	78.1	78.4	78.8
39.4	75.0	75.4	75.8	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.0
39.6	75.2	75.6	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.3
39.8	75.5	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5
40.0	75.7	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.3	79.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.40	9.41	9.42	9.43	9.44	9.45	9.46	9.47	9.48	9.49	9.50
.0	17.2	17.5	17.9	18.2	18.5	18.9	19.3	19.6	20.0	20.4	20.7
.2	17.4	17.8	18.1	18.5	18.8	19.2	19.5	19.9	20.3	20.6	21.0
.4	17.7	18.0	18.4	18.7	19.1	19.4	19.8	20.2	20.5	20.9	21.3
.6	17.9	18.3	18.6	19.0	19.3	19.7	20.1	20.4	20.8	21.2	21.6
.8	18.2	18.5	18.9	19.2	19.6	19.9	20.3	20.7	21.1	21.5	21.9
1.0	18.4	18.8	19.1	19.5	19.8	20.2	20.6	21.0	21.4	21.7	22.1
1.2	18.7	19.0	19.4	19.7	20.1	20.5	20.9	21.2	21.6	22.0	22.4
1.4	18.9	19.3	19.6	20.0	20.4	20.8	21.1	21.5	21.9	22.3	22.7
1.6	19.2	19.5	19.9	20.3	20.7	21.0	21.4	21.8	22.2	22.6	23.0
1.8	19.4	19.8	20.2	20.6	20.9	21.3	21.7	22.1	22.5	22.9	23.3
2.0	19.7	20.1	20.4	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6
2.2	20.0	20.3	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9
2.4	20.2	20.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2
2.6	20.5	20.9	21.3	21.7	22.0	22.4	22.9	23.3	23.7	24.1	24.5
2.8	20.8	21.2	21.5	21.9	22.3	22.7	23.1	23.6	24.0	24.4	24.8
3.0	21.1	21.4	21.8	22.2	22.6	23.0	23.4	23.9	24.3	24.7	25.1
3.2	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.2	24.6	25.0	25.4
3.4	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.5	24.9	25.3	25.8
3.6	21.9	22.3	22.7	23.1	23.5	23.9	24.3	24.8	25.2	25.6	26.1
3.8	22.2	22.6	23.0	23.4	23.8	24.2	24.6	25.1	25.5	25.9	26.4
4.0	22.4	22.9	23.3	23.7	24.1	24.5	24.9	25.4	25.8	26.3	26.7
4.2	22.7	23.1	23.6	24.0	24.4	24.8	25.3	25.7	26.1	26.6	27.0
4.4	23.0	23.4	23.8	24.3	24.7	25.1	25.6	26.0	26.4	26.9	27.4
4.6	23.3	23.7	24.1	24.6	25.0	25.4	25.9	26.3	26.8	27.2	27.7
4.8	23.6	24.0	24.4	24.9	25.3	25.7	26.2	26.6	27.1	27.5	28.0
5.0	23.9	24.3	24.7	25.2	25.6	26.1	26.5	27.0	27.4	27.9	28.3
5.2	24.2	24.6	25.0	25.5	25.9	26.4	26.8	27.3	27.7	28.2	28.7
5.4	24.5	24.9	25.4	25.8	26.2	26.7	27.1	27.6	28.1	28.5	29.0
5.6	24.8	25.2	25.7	26.1	26.5	27.0	27.5	27.9	28.4	28.9	29.3
5.8	25.1	25.5	26.0	26.4	26.9	27.3	27.8	28.2	28.7	29.2	29.7
6.0	25.4	25.8	26.3	26.7	27.2	27.6	28.1	28.6	29.0	29.5	30.0
6.2	25.7	26.1	26.6	27.0	27.5	28.0	28.4	28.9	29.4	29.9	30.3
6.4	26.0	26.5	26.9	27.4	27.8	28.3	28.8	29.2	29.7	30.2	30.7
6.6	26.3	26.8	27.2	27.7	28.2	28.6	29.1	29.6	30.0	30.5	31.0
6.8	26.6	27.1	27.5	28.0	28.5	28.9	29.4	29.9	30.4	30.9	31.4
7.0	27.0	27.4	27.9	28.3	28.8	29.3	29.8	30.2	30.7	31.2	31.7

TEMP DEG C	PH 9.40	9.41	9.42	9.43	9.44	9.45	9.46	9.47	9.48	9.49	9.50
7.0	27.0	27.4	27.9	28.3	28.8	29.3	29.8	30.2	30.7	31.2	31.7
7.2	27.3	27.7	28.2	28.7	29.1	29.6	30.1	30.6	31.1	31.6	32.1
7.4	27.6	28.0	28.5	29.0	29.5	29.9	30.4	30.9	31.4	31.9	32.4
7.6	27.9	28.4	28.8	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8
7.8	28.2	28.7	29.2	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1
8.0	28.6	29.0	29.5	30.0	30.5	31.0	31.5	31.9	32.5	33.0	33.5
8.2	28.9	29.4	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8
8.4	29.2	29.7	30.2	30.7	31.1	31.6	32.1	32.6	33.2	33.7	34.2
8.6	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5
8.8	29.9	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.9	34.4	34.9
9.0	30.2	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.7	35.3
9.2	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.6	35.1	35.6
9.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	34.9	35.4	36.0
9.6	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.8	35.3	35.8	36.3
9.8	31.5	32.0	32.5	33.0	33.6	34.1	34.6	35.1	35.6	36.2	36.7
10.0	31.9	32.4	32.9	33.4	33.9	34.4	34.9	35.5	36.0	36.5	37.1
10.2	32.2	32.7	33.2	33.7	34.3	34.8	35.3	35.8	36.4	36.9	37.4
10.4	32.6	33.1	33.6	34.1	34.6	35.1	35.7	36.2	36.7	37.3	37.8
10.6	32.9	33.4	33.9	34.4	35.0	35.5	36.0	36.6	37.1	37.6	38.2
10.8	33.2	33.8	34.3	34.8	35.3	35.9	36.4	36.9	37.5	38.0	38.5
11.0	33.6	34.1	34.6	35.2	35.7	36.2	36.7	37.3	37.8	38.4	38.9
11.2	33.9	34.5	35.0	35.5	36.0	36.6	37.1	37.6	38.2	38.7	39.3
11.4	34.3	34.8	35.3	35.9	36.4	36.9	37.5	38.0	38.6	39.1	39.7
11.6	34.6	35.2	35.7	36.2	36.8	37.3	37.8	38.4	38.9	39.5	40.0
11.8	35.0	35.5	36.0	36.6	37.1	37.7	38.2	38.7	39.3	39.8	40.4
12.0	35.3	35.9	36.4	36.9	37.5	38.0	38.6	39.1	39.7	40.2	40.8
12.2	35.7	36.2	36.8	37.3	37.8	38.4	38.9	39.5	40.0	40.6	41.1
12.4	36.1	36.6	37.1	37.7	38.2	38.7	39.3	39.8	40.4	41.0	41.5
12.6	36.4	36.9	37.5	38.0	38.6	39.1	39.7	40.2	40.8	41.3	41.9
12.8	36.8	37.3	37.8	38.4	38.9	39.5	40.0	40.6	41.1	41.7	42.3
13.0	37.1	37.7	38.2	38.8	39.3	39.8	40.4	41.0	41.5	42.1	42.6
13.2	37.5	38.0	38.6	39.1	39.7	40.2	40.8	41.3	41.9	42.5	43.0
13.4	37.8	38.4	38.9	39.5	40.0	40.6	41.1	41.7	42.3	42.8	43.4
13.6	38.2	38.7	39.3	39.8	40.4	41.0	41.5	42.1	42.6	43.2	43.8
13.8	38.6	39.1	39.7	40.2	40.8	41.3	41.9	42.4	43.0	43.6	44.1
14.0	38.9	39.5	40.0	40.6	41.1	41.7	42.3	42.8	43.4	44.0	44.5

TEMP DEG C	PH 9.40	9.41	9.42	9.43	9.44	9.45	9.46	9.47	9.48	9.49	9.50
14.0	38.9	39.5	40.0	40.6	41.1	41.7	42.3	42.8	43.4	44.0	44.5
14.2	39.3	39.8	40.4	40.9	41.5	42.1	42.6	43.2	43.8	44.3	44.9
14.4	39.7	40.2	40.8	41.3	41.9	42.4	43.0	43.6	44.1	44.7	45.3
14.6	40.0	40.6	41.1	41.7	42.2	42.8	43.4	43.9	44.5	45.1	45.6
14.8	40.4	40.9	41.5	42.1	42.6	43.2	43.7	44.3	44.9	45.5	46.0
15.0	40.7	41.3	41.9	42.4	43.0	43.6	44.1	44.7	45.3	45.8	46.4
15.2	41.1	41.7	42.2	42.8	43.4	43.9	44.5	45.1	45.6	46.2	46.8
15.4	41.5	42.0	42.6	43.2	43.7	44.3	44.9	45.4	46.0	46.6	47.2
15.6	41.8	42.4	43.0	43.5	44.1	44.7	45.2	45.8	46.4	47.0	47.5
15.8	42.2	42.8	43.3	43.9	44.5	45.0	45.6	46.2	46.8	47.3	47.9
16.0	42.6	43.1	43.7	44.3	44.8	45.4	46.0	46.6	47.1	47.7	48.3
16.2	42.9	43.5	44.1	44.6	45.2	45.8	46.4	46.9	47.5	48.1	48.7
16.4	43.3	43.9	44.4	45.0	45.6	46.2	46.7	47.3	47.9	48.5	49.0
16.6	43.7	44.2	44.8	45.4	46.0	46.5	47.1	47.7	48.3	48.8	49.4
16.8	44.0	44.6	45.2	45.8	46.3	46.9	47.5	48.1	48.6	49.2	49.8
17.0	44.4	45.0	45.6	46.1	46.7	47.3	47.9	48.4	49.0	49.6	50.2
17.2	44.8	45.4	45.9	46.5	47.1	47.6	48.2	48.8	49.4	49.9	50.5
17.4	45.2	45.7	46.3	46.9	47.4	48.0	48.6	49.2	49.7	50.3	50.9
17.6	45.5	46.1	46.7	47.2	47.8	48.4	49.0	49.5	50.1	50.7	51.3
17.8	45.9	46.5	47.0	47.6	48.2	48.8	49.3	49.9	50.5	51.1	51.6
18.0	46.3	46.8	47.4	48.0	48.6	49.1	49.7	50.3	50.9	51.4	52.0
18.2	46.6	47.2	47.8	48.4	48.9	49.5	50.1	50.7	51.2	51.8	52.4
18.4	47.0	47.6	48.1	48.7	49.3	49.9	50.4	51.0	51.6	52.2	52.7
18.6	47.4	47.9	48.5	49.1	49.7	50.2	50.8	51.4	52.0	52.5	53.1
18.8	47.7	48.3	48.9	49.5	50.0	50.6	51.2	51.8	52.3	52.9	53.5
19.0	48.1	48.7	49.3	49.8	50.4	51.0	51.6	52.1	52.7	53.3	53.8
19.2	48.5	49.0	49.6	50.2	50.8	51.3	51.9	52.5	53.1	53.6	54.2
19.4	48.8	49.4	50.0	50.6	51.1	51.7	52.3	52.9	53.4	54.0	54.6
19.6	49.2	49.8	50.4	50.9	51.5	52.1	52.7	53.2	53.8	54.4	54.9
19.8	49.6	50.1	50.7	51.3	51.9	52.4	53.0	53.6	54.2	54.7	55.3
20.0	49.9	50.5	51.1	51.7	52.2	52.8	53.4	54.0	54.5	55.1	55.7
20.2	50.3	50.9	51.5	52.0	52.6	53.2	53.7	54.3	54.9	55.5	56.0
20.4	50.7	51.2	51.8	52.4	53.0	53.5	54.1	54.7	55.3	55.8	56.4
20.6	51.0	51.6	52.2	52.8	53.3	53.9	54.5	55.0	55.6	56.2	56.7
20.8	51.4	52.0	52.5	53.1	53.7	54.3	54.8	55.4	56.0	56.5	57.1
21.0	51.8	52.3	52.9	53.5	54.0	54.6	55.2	55.8	56.3	56.9	57.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.40	9.41	9.42	9.43	9.44	9.45	9.46	9.47	9.48	9.49	9.50
21.0	51.8	52.3	52.9	53.5	54.0	54.6	55.2	55.8	56.3	56.9	57.5
21.2	52.1	52.7	53.3	53.8	54.4	55.0	55.5	56.1	56.7	57.2	57.8
21.4	52.5	53.1	53.6	54.2	54.8	55.3	55.9	56.5	57.0	57.6	58.2
21.6	52.8	53.4	54.0	54.6	55.1	55.7	56.3	56.8	57.4	58.0	58.5
21.8	53.2	53.8	54.3	54.9	55.5	56.1	56.6	57.2	57.7	58.3	58.9
22.0	53.6	54.1	54.7	55.3	55.8	56.4	57.0	57.5	58.1	58.7	59.2
22.2	53.9	54.5	55.1	55.6	56.2	56.8	57.3	57.9	58.4	59.0	59.6
22.4	54.3	54.8	55.4	56.0	56.5	57.1	57.7	58.2	58.8	59.4	59.9
22.6	54.6	55.2	55.8	56.3	56.9	57.5	58.0	58.6	59.1	59.7	60.3
22.8	55.0	55.6	56.1	56.7	57.3	57.8	58.4	58.9	59.5	60.0	60.6
23.0	55.3	55.9	56.5	57.0	57.6	58.2	58.7	59.3	59.8	60.4	60.9
23.2	55.7	56.3	56.8	57.4	58.0	58.5	59.1	59.6	60.2	60.7	61.3
23.4	56.0	56.6	57.2	57.7	58.3	58.9	59.4	60.0	60.5	61.1	61.6
23.6	56.4	57.0	57.5	58.1	58.6	59.2	59.8	60.3	60.9	61.4	62.0
23.8	56.7	57.3	57.9	58.4	59.0	59.6	60.1	60.7	61.2	61.7	62.3
24.0	57.1	57.7	58.2	58.8	59.3	59.9	60.4	61.0	61.5	62.1	62.6
24.2	57.4	58.0	58.6	59.1	59.7	60.2	60.8	61.3	61.9	62.4	63.0
24.4	57.8	58.4	58.9	59.5	60.0	60.6	61.1	61.7	62.2	62.8	63.3
24.6	58.1	58.7	59.3	59.8	60.4	60.9	61.5	62.0	62.5	63.1	63.6
24.8	58.5	59.0	59.6	60.1	60.7	61.2	61.8	62.3	62.9	63.4	63.9
25.0	58.8	59.4	59.9	60.5	61.0	61.6	62.1	62.7	63.2	63.7	64.3
25.2	59.2	59.7	60.3	60.8	61.4	61.9	62.5	63.0	63.5	64.1	64.6
25.4	59.5	60.1	60.6	61.2	61.7	62.2	62.8	63.3	63.9	64.4	64.9
25.6	59.8	60.4	60.9	61.5	62.0	62.6	63.1	63.7	64.2	64.7	65.2
25.8	60.2	60.7	61.3	61.8	62.4	62.9	63.4	64.0	64.5	65.0	65.6
26.0	60.5	61.1	61.6	62.2	62.7	63.2	63.8	64.3	64.8	65.3	65.9
26.2	60.9	61.4	61.9	62.5	63.0	63.6	64.1	64.6	65.1	65.7	66.2
26.4	61.2	61.7	62.3	62.8	63.4	63.9	64.4	64.9	65.5	66.0	66.5
26.6	61.5	62.1	62.6	63.1	63.7	64.2	64.7	65.3	65.8	66.3	66.8
26.8	61.9	62.4	62.9	63.5	64.0	64.5	65.1	65.6	66.1	66.6	67.1
27.0	62.2	62.7	63.3	63.8	64.3	64.8	65.4	65.9	66.4	66.9	67.4
27.2	62.5	63.0	63.6	64.1	64.6	65.2	65.7	66.2	66.7	67.2	67.7
27.4	62.8	63.4	63.9	64.4	65.0	65.5	66.0	66.5	67.0	67.5	68.0
27.6	63.2	63.7	64.2	64.7	65.3	65.8	66.3	66.8	67.3	67.8	68.3
27.8	63.5	64.0	64.5	65.1	65.6	66.1	66.6	67.1	67.6	68.1	68.6
28.0	63.8	64.3	64.9	65.4	65.9	66.4	66.9	67.4	67.9	68.4	68.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.40	9.41	9.42	9.43	9.44	9.45	9.46	9.47	9.48	9.49	9.50
28.0	63.8	64.3	64.9	65.4	65.9	66.4	66.9	67.4	67.9	68.4	68.9
28.2	64.1	64.6	65.2	65.7	66.2	66.7	67.2	67.7	68.2	68.7	69.2
28.4	64.4	65.0	65.5	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5
28.6	64.8	65.3	65.8	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8
28.8	65.1	65.6	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1
29.0	65.4	65.9	66.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4
29.2	65.7	66.2	66.7	67.2	67.7	68.2	68.7	69.2	69.7	70.2	70.7
29.4	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0
29.6	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3	70.8	71.2
29.8	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.6	71.1	71.5
30.0	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.9	71.3	71.8
30.2	67.2	67.7	68.2	68.7	69.2	69.7	70.2	70.7	71.1	71.6	72.1
30.4	67.5	68.0	68.5	69.0	69.5	70.0	70.5	70.9	71.4	71.9	72.4
30.6	67.8	68.3	68.8	69.3	69.8	70.3	70.8	71.2	71.7	72.2	72.6
30.8	68.1	68.6	69.1	69.6	70.1	70.6	71.0	71.5	72.0	72.4	72.9
31.0	68.4	68.9	69.4	69.9	70.4	70.8	71.3	71.8	72.2	72.7	73.2
31.2	68.7	69.2	69.7	70.2	70.6	71.1	71.6	72.1	72.5	73.0	73.4
31.4	69.0	69.5	70.0	70.4	70.9	71.4	71.9	72.3	72.8	73.2	73.7
31.6	69.3	69.8	70.2	70.7	71.2	71.7	72.1	72.6	73.1	73.5	74.0
31.8	69.6	70.0	70.5	71.0	71.5	71.9	72.4	72.9	73.3	73.8	74.2
32.0	69.8	70.3	70.8	71.3	71.8	72.2	72.7	73.1	73.6	74.0	74.5
32.2	70.1	70.6	71.1	71.6	72.0	72.5	72.9	73.4	73.8	74.3	74.7
32.4	70.4	70.9	71.4	71.8	72.3	72.8	73.2	73.7	74.1	74.5	75.0
32.6	70.7	71.2	71.6	72.1	72.6	73.0	73.5	73.9	74.4	74.8	75.2
32.8	71.0	71.4	71.9	72.4	72.8	73.3	73.7	74.2	74.6	75.0	75.5
33.0	71.2	71.7	72.2	72.6	73.1	73.5	74.0	74.4	74.9	75.3	75.7
33.2	71.5	72.0	72.4	72.9	73.4	73.8	74.2	74.7	75.1	75.5	76.0
33.4	71.8	72.3	72.7	73.2	73.6	74.1	74.5	74.9	75.4	75.8	76.2
33.6	72.1	72.5	73.0	73.4	73.9	74.3	74.8	75.2	75.6	76.0	76.5
33.8	72.3	72.8	73.2	73.7	74.1	74.6	75.0	75.4	75.9	76.3	76.7
34.0	72.6	73.1	73.5	73.9	74.4	74.8	75.3	75.7	76.1	76.5	76.9
34.2	72.9	73.3	73.8	74.2	74.6	75.1	75.5	75.9	76.3	76.8	77.2
34.4	73.1	73.6	74.0	74.5	74.9	75.3	75.7	76.2	76.6	77.0	77.4
34.6	73.4	73.8	74.3	74.7	75.1	75.6	76.0	76.4	76.8	77.2	77.6
34.8	73.6	74.1	74.5	75.0	75.4	75.8	76.2	76.6	77.1	77.5	77.9
35.0	73.9	74.3	74.8	75.2	75.6	76.1	76.5	76.9	77.3	77.7	78.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.40	9.41	9.42	9.43	9.44	9.45	9.46	9.47	9.48	9.49	9.50
35.0	73.9	74.3	74.8	75.2	75.6	76.1	76.5	76.9	77.3	77.7	78.1
35.2	74.2	74.6	75.0	75.5	75.9	76.3	76.7	77.1	77.5	77.9	78.3
35.4	74.4	74.8	75.3	75.7	76.1	76.5	76.9	77.4	77.8	78.1	78.5
35.6	74.7	75.1	75.5	75.9	76.4	76.8	77.2	77.6	78.0	78.4	78.8
35.8	74.9	75.3	75.8	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0
36.0	75.1	75.6	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2
36.2	75.4	75.8	76.2	76.7	77.1	77.5	77.9	78.3	78.6	79.0	79.4
36.4	75.6	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.2	79.6
36.6	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.8
36.8	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.3	79.7	80.0
37.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.1	79.5	79.9	80.3
37.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.4	79.7	80.1	80.5
37.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2	79.6	79.9	80.3	80.7
37.6	77.1	77.5	77.9	78.2	78.6	79.0	79.4	79.8	80.1	80.5	80.9
37.8	77.3	77.7	78.1	78.5	78.9	79.2	79.6	80.0	80.4	80.7	81.1
38.0	77.5	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6	80.9	81.3
38.2	77.7	78.1	78.5	78.9	79.3	79.7	80.0	80.4	80.8	81.1	81.5
38.4	78.0	78.3	78.7	79.1	79.5	79.9	80.2	80.6	81.0	81.3	81.7
38.6	78.2	78.6	79.0	79.3	79.7	80.1	80.4	80.8	81.2	81.5	81.9
38.8	78.4	78.8	79.2	79.5	79.9	80.3	80.6	81.0	81.4	81.7	82.0
39.0	78.6	79.0	79.4	79.8	80.1	80.5	80.8	81.2	81.5	81.9	82.2
39.2	78.8	79.2	79.6	80.0	80.3	80.7	81.0	81.4	81.7	82.1	82.4
39.4	79.0	79.4	79.8	80.2	80.5	80.9	81.2	81.6	81.9	82.3	82.6
39.6	79.3	79.6	80.0	80.4	80.7	81.1	81.4	81.8	82.1	82.5	82.8
39.8	79.5	79.8	80.2	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0
40.0	79.7	80.0	80.4	80.8	81.1	81.5	81.8	82.2	82.5	82.8	83.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.50	9.51	9.52	9.53	9.54	9.55	9.56	9.57	9.58	9.59	9.60
.0	20.7	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.9	24.3	24.8
.2	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.7	25.1
.4	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.1	24.5	25.0	25.4
.6	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.8	25.3	25.7
.8	21.9	22.2	22.6	23.1	23.5	23.9	24.3	24.7	25.2	25.6	26.0
1.0	22.1	22.5	22.9	23.4	23.8	24.2	24.6	25.0	25.5	25.9	26.4
1.2	22.4	22.8	23.2	23.7	24.1	24.5	24.9	25.4	25.8	26.2	26.7
1.4	22.7	23.1	23.5	24.0	24.4	24.8	25.2	25.7	26.1	26.6	27.0
1.6	23.0	23.4	23.8	24.3	24.7	25.1	25.6	26.0	26.4	26.9	27.3
1.8	23.3	23.7	24.1	24.6	25.0	25.4	25.9	26.3	26.8	27.2	27.7
2.0	23.6	24.0	24.4	24.9	25.3	25.7	26.2	26.6	27.1	27.5	28.0
2.2	23.9	24.3	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9	28.3
2.4	24.2	24.6	25.1	25.5	25.9	26.4	26.8	27.3	27.8	28.2	28.7
2.6	24.5	24.9	25.4	25.8	26.3	26.7	27.2	27.6	28.1	28.6	29.0
2.8	24.8	25.3	25.7	26.1	26.6	27.0	27.5	28.0	28.4	28.9	29.4
3.0	25.1	25.6	26.0	26.5	26.9	27.4	27.8	28.3	28.8	29.2	29.7
3.2	25.4	25.9	26.3	26.8	27.2	27.7	28.2	28.6	29.1	29.6	30.1
3.4	25.8	26.2	26.6	27.1	27.6	28.0	28.5	29.0	29.4	29.9	30.4
3.6	26.1	26.5	27.0	27.4	27.9	28.4	28.8	29.3	29.8	30.3	30.7
3.8	26.4	26.8	27.3	27.8	28.2	28.7	29.2	29.6	30.1	30.6	31.1
4.0	26.7	27.2	27.6	28.1	28.5	29.0	29.5	30.0	30.5	31.0	31.4
4.2	27.0	27.5	27.9	28.4	28.9	29.4	29.8	30.3	30.8	31.3	31.8
4.4	27.4	27.8	28.3	28.7	29.2	29.7	30.2	30.7	31.2	31.7	32.2
4.6	27.7	28.1	28.6	29.1	29.6	30.0	30.5	31.0	31.5	32.0	32.5
4.8	28.0	28.5	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9
5.0	28.3	28.8	29.3	29.8	30.2	30.7	31.2	31.7	32.2	32.7	33.2
5.2	28.7	29.1	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6
5.4	29.0	29.5	30.0	30.4	30.9	31.4	31.9	32.4	32.9	33.4	34.0
5.6	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3
5.8	29.7	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.2	34.7
6.0	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.1
6.2	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.9	34.4	34.9	35.4
6.4	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.7	35.3	35.8
6.6	31.0	31.5	32.0	32.5	33.0	33.5	34.1	34.6	35.1	35.6	36.2
6.8	31.4	31.9	32.4	32.9	33.4	33.9	34.4	34.9	35.5	36.0	36.5
7.0	31.7	32.2	32.7	33.2	33.7	34.3	34.8	35.3	35.8	36.4	36.9

TEMP DEG C	PH 9.50	9.51	9.52	9.53	9.54	9.55	9.56	9.57	9.58	9.59	9.60
7.0	31.7	32.2	32.7	33.2	33.7	34.3	34.8	35.3	35.8	36.4	36.9
7.2	32.1	32.6	33.1	33.6	34.1	34.6	35.1	35.7	36.2	36.7	37.3
7.4	32.4	32.9	33.4	33.9	34.5	35.0	35.5	36.0	36.6	37.1	37.6
7.6	32.8	33.3	33.8	34.3	34.8	35.3	35.9	36.4	36.9	37.5	38.0
7.8	33.1	33.6	34.1	34.7	35.2	35.7	36.2	36.8	37.3	37.9	38.4
8.0	33.5	34.0	34.5	35.0	35.6	36.1	36.6	37.1	37.7	38.2	38.8
8.2	33.8	34.3	34.9	35.4	35.9	36.4	37.0	37.5	38.1	38.6	39.2
8.4	34.2	34.7	35.2	35.8	36.3	36.8	37.4	37.9	38.4	39.0	39.5
8.6	34.5	35.1	35.6	36.1	36.6	37.2	37.7	38.3	38.8	39.4	39.9
8.8	34.9	35.4	35.9	36.5	37.0	37.6	38.1	38.6	39.2	39.7	40.3
9.0	35.3	35.8	36.3	36.8	37.4	37.9	38.5	39.0	39.6	40.1	40.7
9.2	35.6	36.1	36.7	37.2	37.8	38.3	38.8	39.4	39.9	40.5	41.1
9.4	36.0	36.5	37.0	37.6	38.1	38.7	39.2	39.8	40.3	40.9	41.4
9.6	36.3	36.9	37.4	38.0	38.5	39.0	39.6	40.1	40.7	41.3	41.8
9.8	36.7	37.2	37.8	38.3	38.9	39.4	40.0	40.5	41.1	41.6	42.2
10.0	37.1	37.6	38.2	38.7	39.2	39.8	40.3	40.9	41.5	42.0	42.6
10.2	37.4	38.0	38.5	39.1	39.6	40.2	40.7	41.3	41.8	42.4	43.0
10.4	37.8	38.3	38.9	39.4	40.0	40.5	41.1	41.7	42.2	42.8	43.3
10.6	38.2	38.7	39.3	39.8	40.4	40.9	41.5	42.0	42.6	43.2	43.7
10.8	38.5	39.1	39.6	40.2	40.7	41.3	41.9	42.4	43.0	43.6	44.1
11.0	38.9	39.5	40.0	40.6	41.1	41.7	42.2	42.8	43.4	43.9	44.5
11.2	39.3	39.8	40.4	40.9	41.5	42.1	42.6	43.2	43.7	44.3	44.9
11.4	39.7	40.2	40.8	41.3	41.9	42.4	43.0	43.6	44.1	44.7	45.3
11.6	40.0	40.6	41.1	41.7	42.3	42.8	43.4	43.9	44.5	45.1	45.7
11.8	40.4	41.0	41.5	42.1	42.6	43.2	43.8	44.3	44.9	45.5	46.0
12.0	40.8	41.3	41.9	42.4	43.0	43.6	44.1	44.7	45.3	45.9	46.4
12.2	41.1	41.7	42.3	42.8	43.4	44.0	44.5	45.1	45.7	46.2	46.8
12.4	41.5	42.1	42.6	43.2	43.8	44.3	44.9	45.5	46.0	46.6	47.2
12.6	41.9	42.5	43.0	43.6	44.1	44.7	45.3	45.9	46.4	47.0	47.6
12.8	42.3	42.8	43.4	44.0	44.5	45.1	45.7	46.2	46.8	47.4	48.0
13.0	42.6	43.2	43.8	44.3	44.9	45.5	46.0	46.6	47.2	47.8	48.3
13.2	43.0	43.6	44.1	44.7	45.3	45.9	46.4	47.0	47.6	48.2	48.7
13.4	43.4	44.0	44.5	45.1	45.7	46.2	46.8	47.4	48.0	48.5	49.1
13.6	43.8	44.3	44.9	45.5	46.0	46.6	47.2	47.8	48.3	48.9	49.5
13.8	44.1	44.7	45.3	45.9	46.4	47.0	47.6	48.1	48.7	49.3	49.9
14.0	44.5	45.1	45.7	46.2	46.8	47.4	48.0	48.5	49.1	49.7	50.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.50	9.51	9.52	9.53	9.54	9.55	9.56	9.57	9.58	9.59	9.60
14.0	44.5	45.1	45.7	46.2	46.8	47.4	48.0	48.5	49.1	49.7	50.3
14.2	44.9	45.5	46.0	46.6	47.2	47.8	48.3	48.9	49.5	50.1	50.6
14.4	45.3	45.8	46.4	47.0	47.6	48.1	48.7	49.3	49.9	50.4	51.0
14.6	45.6	46.2	46.8	47.4	47.9	48.5	49.1	49.7	50.2	50.8	51.4
14.8	46.0	46.6	47.2	47.7	48.3	48.9	49.5	50.0	50.6	51.2	51.8
15.0	46.4	47.0	47.5	48.1	48.7	49.3	49.8	50.4	51.0	51.6	52.2
15.2	46.8	47.4	47.9	48.5	49.1	49.7	50.2	50.8	51.4	52.0	52.5
15.4	47.2	47.7	48.3	48.9	49.5	50.0	50.6	51.2	51.8	52.3	52.9
15.6	47.5	48.1	48.7	49.3	49.8	50.4	51.0	51.6	52.1	52.7	53.3
15.8	47.9	48.5	49.1	49.6	50.2	50.8	51.4	51.9	52.5	53.1	53.7
16.0	48.3	48.9	49.4	50.0	50.6	51.2	51.7	52.3	52.9	53.5	54.0
16.2	48.7	49.2	49.8	50.4	51.0	51.5	52.1	52.7	53.3	53.8	54.4
16.4	49.0	49.6	50.2	50.8	51.3	51.9	52.5	53.1	53.6	54.2	54.8
16.6	49.4	50.0	50.6	51.1	51.7	52.3	52.9	53.4	54.0	54.6	55.1
16.8	49.8	50.4	50.9	51.5	52.1	52.7	53.2	53.8	54.4	54.9	55.5
17.0	50.2	50.7	51.3	51.9	52.5	53.0	53.6	54.2	54.7	55.3	55.9
17.2	50.5	51.1	51.7	52.3	52.8	53.4	54.0	54.5	55.1	55.7	56.2
17.4	50.9	51.5	52.0	52.6	53.2	53.8	54.3	54.9	55.5	56.0	56.6
17.6	51.3	51.8	52.4	53.0	53.6	54.1	54.7	55.3	55.8	56.4	57.0
17.8	51.6	52.2	52.8	53.4	53.9	54.5	55.1	55.6	56.2	56.8	57.3
18.0	52.0	52.6	53.2	53.7	54.3	54.9	55.4	56.0	56.6	57.1	57.7
18.2	52.4	53.0	53.5	54.1	54.7	55.2	55.8	56.4	56.9	57.5	58.1
18.4	52.7	53.3	53.9	54.5	55.0	55.6	56.2	56.7	57.3	57.9	58.4
18.6	53.1	53.7	54.3	54.8	55.4	56.0	56.5	57.1	57.7	58.2	58.8
18.8	53.5	54.1	54.6	55.2	55.8	56.3	56.9	57.5	58.0	58.6	59.1
19.0	53.9	54.4	55.0	55.6	56.1	56.7	57.3	57.8	58.4	58.9	59.5
19.2	54.2	54.8	55.4	55.9	56.5	57.1	57.6	58.2	58.7	59.3	59.9
19.4	54.6	55.2	55.7	56.3	56.9	57.4	58.0	58.5	59.1	59.7	60.2
19.6	54.9	55.5	56.1	56.6	57.2	57.8	58.3	58.9	59.5	60.0	60.6
19.8	55.3	55.9	56.4	57.0	57.6	58.1	58.7	59.2	59.8	60.4	60.9
20.0	55.7	56.2	56.8	57.4	57.9	58.5	59.0	59.6	60.2	60.7	61.3
20.2	56.0	56.6	57.2	57.7	58.3	58.8	59.4	60.0	60.5	61.1	61.6
20.4	56.4	57.0	57.5	58.1	58.6	59.2	59.7	60.3	60.9	61.4	61.9
20.6	56.7	57.3	57.9	58.4	59.0	59.5	60.1	60.7	61.2	61.7	62.3
20.8	57.1	57.7	58.2	58.8	59.3	59.9	60.4	61.0	61.5	62.1	62.6
21.0	57.5	58.0	58.6	59.1	59.7	60.2	60.8	61.3	61.9	62.4	63.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.50	9.51	9.52	9.53	9.54	9.55	9.56	9.57	9.58	9.59	9.60
21.0	57.5	58.0	58.6	59.1	59.7	60.2	60.8	61.3	61.9	62.4	63.0
21.2	57.8	58.4	58.9	59.5	60.0	60.6	61.1	61.7	62.2	62.8	63.3
21.4	58.2	58.7	59.3	59.8	60.4	60.9	61.5	62.0	62.6	63.1	63.6
21.6	58.5	59.1	59.6	60.2	60.7	61.3	61.8	62.4	62.9	63.4	64.0
21.8	58.9	59.4	60.0	60.5	61.1	61.6	62.2	62.7	63.2	63.8	64.3
22.0	59.2	59.8	60.3	60.9	61.4	62.0	62.5	63.0	63.6	64.1	64.6
22.2	59.6	60.1	60.7	61.2	61.8	62.3	62.8	63.4	63.9	64.4	65.0
22.4	59.9	60.5	61.0	61.6	62.1	62.6	63.2	63.7	64.2	64.8	65.3
22.6	60.3	60.8	61.4	61.9	62.4	63.0	63.5	64.0	64.6	65.1	65.6
22.8	60.6	61.1	61.7	62.2	62.8	63.3	63.8	64.4	64.9	65.4	65.9
23.0	60.9	61.5	62.0	62.6	63.1	63.6	64.2	64.7	65.2	65.7	66.3
23.2	61.3	61.8	62.4	62.9	63.4	64.0	64.5	65.0	65.6	66.1	66.6
23.4	61.6	62.2	62.7	63.2	63.8	64.3	64.8	65.4	65.9	66.4	66.9
23.6	62.0	62.5	63.0	63.6	64.1	64.6	65.2	65.7	66.2	66.7	67.2
23.8	62.3	62.8	63.4	63.9	64.4	65.0	65.5	66.0	66.5	67.0	67.5
24.0	62.6	63.2	63.7	64.2	64.8	65.3	65.8	66.3	66.8	67.3	67.8
24.2	63.0	63.5	64.0	64.6	65.1	65.6	66.1	66.6	67.1	67.6	68.1
24.4	63.3	63.8	64.4	64.9	65.4	65.9	66.4	66.9	67.5	68.0	68.5
24.6	63.6	64.1	64.7	65.2	65.7	66.2	66.8	67.3	67.8	68.3	68.8
24.8	63.9	64.5	65.0	65.5	66.0	66.6	67.1	67.6	68.1	68.6	69.1
25.0	64.3	64.8	65.3	65.8	66.4	66.9	67.4	67.9	68.4	68.9	69.4
25.2	64.6	65.1	65.6	66.2	66.7	67.2	67.7	68.2	68.7	69.2	69.7
25.4	64.9	65.4	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0
25.6	65.2	65.8	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3
25.8	65.6	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.6
26.0	65.9	66.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.8
26.2	66.2	66.7	67.2	67.7	68.2	68.7	69.2	69.7	70.2	70.7	71.1
26.4	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	70.9	71.4
26.6	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3	70.8	71.2	71.7
26.8	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.6	71.0	71.5	72.0
27.0	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.9	71.3	71.8	72.3
27.2	67.7	68.2	68.7	69.2	69.7	70.2	70.7	71.1	71.6	72.1	72.5
27.4	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.4	71.9	72.4	72.8
27.6	68.3	68.8	69.3	69.8	70.3	70.8	71.2	71.7	72.2	72.6	73.1
27.8	68.6	69.1	69.6	70.1	70.6	71.1	71.5	72.0	72.5	72.9	73.4
28.0	68.9	69.4	69.9	70.4	70.9	71.3	71.8	72.3	72.7	73.2	73.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.50	9.51	9.52	9.53	9.54	9.55	9.56	9.57	9.58	9.59	9.60
28.0	68.9	69.4	69.9	70.4	70.9	71.3	71.8	72.3	72.7	73.2	73.6
28.2	69.2	69.7	70.2	70.7	71.2	71.6	72.1	72.6	73.0	73.5	73.9
28.4	69.5	70.0	70.5	71.0	71.4	71.9	72.4	72.8	73.3	73.7	74.2
28.6	69.8	70.3	70.8	71.3	71.7	72.2	72.6	73.1	73.5	74.0	74.4
28.8	70.1	70.6	71.1	71.5	72.0	72.5	72.9	73.4	73.8	74.3	74.7
29.0	70.4	70.9	71.3	71.8	72.3	72.7	73.2	73.6	74.1	74.5	75.0
29.2	70.7	71.2	71.6	72.1	72.5	73.0	73.5	73.9	74.3	74.8	75.2
29.4	71.0	71.4	71.9	72.4	72.8	73.3	73.7	74.2	74.6	75.0	75.5
29.6	71.2	71.7	72.2	72.6	73.1	73.5	74.0	74.4	74.9	75.3	75.7
29.8	71.5	72.0	72.5	72.9	73.4	73.8	74.3	74.7	75.1	75.6	76.0
30.0	71.8	72.3	72.7	73.2	73.6	74.1	74.5	74.9	75.4	75.8	76.2
30.2	72.1	72.5	73.0	73.4	73.9	74.3	74.8	75.2	75.6	76.1	76.5
30.4	72.4	72.8	73.3	73.7	74.2	74.6	75.0	75.5	75.9	76.3	76.7
30.6	72.6	73.1	73.5	74.0	74.4	74.9	75.3	75.7	76.1	76.5	77.0
30.8	72.9	73.3	73.8	74.2	74.7	75.1	75.5	76.0	76.4	76.8	77.2
31.0	73.2	73.6	74.1	74.5	74.9	75.4	75.8	76.2	76.6	77.0	77.4
31.2	73.4	73.9	74.3	74.8	75.2	75.6	76.0	76.5	76.9	77.3	77.7
31.4	73.7	74.1	74.6	75.0	75.4	75.9	76.3	76.7	77.1	77.5	77.9
31.6	74.0	74.4	74.8	75.3	75.7	76.1	76.5	76.9	77.3	77.7	78.1
31.8	74.2	74.6	75.1	75.5	75.9	76.4	76.8	77.2	77.6	78.0	78.4
32.0	74.5	74.9	75.3	75.8	76.2	76.6	77.0	77.4	77.8	78.2	78.6
32.2	74.7	75.2	75.6	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8
32.4	75.0	75.4	75.8	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.0
32.6	75.2	75.7	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.3
32.8	75.5	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5
33.0	75.7	76.1	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.3	79.7
33.2	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2	79.5	79.9
33.4	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.4	79.8	80.1
33.6	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.2	79.6	80.0	80.3
33.8	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6
34.0	76.9	77.3	77.7	78.1	78.5	78.9	79.3	79.7	80.0	80.4	80.8
34.2	77.2	77.6	78.0	78.4	78.8	79.1	79.5	79.9	80.3	80.6	81.0
34.4	77.4	77.8	78.2	78.6	79.0	79.4	79.7	80.1	80.5	80.8	81.2
34.6	77.6	78.0	78.4	78.8	79.2	79.6	79.9	80.3	80.7	81.0	81.4
34.8	77.9	78.3	78.6	79.0	79.4	79.8	80.2	80.5	80.9	81.2	81.6
35.0	78.1	78.5	78.9	79.2	79.6	80.0	80.4	80.7	81.1	81.4	81.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.50	9.51	9.52	9.53	9.54	9.55	9.56	9.57	9.58	9.59	9.60
35.0	78.1	78.5	78.9	79.2	79.6	80.0	80.4	80.7	81.1	81.4	81.8
35.2	78.3	78.7	79.1	79.5	79.8	80.2	80.6	80.9	81.3	81.6	82.0
35.4	78.5	78.9	79.3	79.7	80.1	80.4	80.8	81.1	81.5	81.8	82.2
35.6	78.8	79.1	79.5	79.9	80.3	80.6	81.0	81.3	81.7	82.0	82.4
35.8	79.0	79.4	79.7	80.1	80.5	80.8	81.2	81.5	81.9	82.2	82.5
36.0	79.2	79.6	79.9	80.3	80.7	81.0	81.4	81.7	82.1	82.4	82.7
36.2	79.4	79.8	80.2	80.5	80.9	81.2	81.6	81.9	82.3	82.6	82.9
36.4	79.6	80.0	80.4	80.7	81.1	81.4	81.8	82.1	82.5	82.8	83.1
36.6	79.8	80.2	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0	83.3
36.8	80.0	80.4	80.8	81.1	81.5	81.8	82.2	82.5	82.8	83.2	83.5
37.0	80.3	80.6	81.0	81.3	81.7	82.0	82.4	82.7	83.0	83.3	83.7
37.2	80.5	80.8	81.2	81.5	81.9	82.2	82.5	82.9	83.2	83.5	83.8
37.4	80.7	81.0	81.4	81.7	82.1	82.4	82.7	83.1	83.4	83.7	84.0
37.6	80.9	81.2	81.6	81.9	82.3	82.6	82.9	83.2	83.6	83.9	84.2
37.8	81.1	81.4	81.8	82.1	82.4	82.8	83.1	83.4	83.7	84.0	84.4
38.0	81.3	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9	84.2	84.5
38.2	81.5	81.8	82.1	82.5	82.8	83.1	83.5	83.8	84.1	84.4	84.7
38.4	81.7	82.0	82.3	82.7	83.0	83.3	83.6	84.0	84.3	84.6	84.9
38.6	81.9	82.2	82.5	82.9	83.2	83.5	83.8	84.1	84.4	84.7	85.0
38.8	82.0	82.4	82.7	83.0	83.4	83.7	84.0	84.3	84.6	84.9	85.2
39.0	82.2	82.6	82.9	83.2	83.5	83.9	84.2	84.5	84.8	85.1	85.4
39.2	82.4	82.8	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5
39.4	82.6	82.9	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7
39.6	82.8	83.1	83.4	83.8	84.1	84.4	84.7	85.0	85.3	85.5	85.8
39.8	83.0	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0
40.0	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.1

TEMP DEG C	PH 9.60	9.61	9.62	9.63	9.64	9.65	9.66	9.67	9.68	9.69	9.70
.0	24.8	25.2	25.6	26.1	26.5	27.0	27.4	27.9	28.4	28.8	29.3
.2	25.1	25.5	26.0	26.4	26.9	27.3	27.8	28.2	28.7	29.2	29.6
.4	25.4	25.8	26.3	26.7	27.2	27.6	28.1	28.6	29.0	29.5	30.0
.6	25.7	26.2	26.6	27.1	27.5	28.0	28.4	28.9	29.4	29.9	30.4
.8	26.0	26.5	26.9	27.4	27.9	28.3	28.8	29.3	29.7	30.2	30.7
1.0	26.4	26.8	27.3	27.7	28.2	28.7	29.1	29.6	30.1	30.6	31.1
1.2	26.7	27.1	27.6	28.1	28.5	29.0	29.5	30.0	30.4	30.9	31.4
1.4	27.0	27.5	27.9	28.4	28.9	29.3	29.8	30.3	30.8	31.3	31.8
1.6	27.3	27.8	28.3	28.7	29.2	29.7	30.2	30.7	31.2	31.6	32.1
1.8	27.7	28.1	28.6	29.1	29.6	30.0	30.5	31.0	31.5	32.0	32.5
2.0	28.0	28.5	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9
2.2	28.3	28.8	29.3	29.8	30.3	30.7	31.2	31.7	32.2	32.7	33.2
2.4	28.7	29.2	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6
2.6	29.0	29.5	30.0	30.5	31.0	31.4	31.9	32.5	33.0	33.5	34.0
2.8	29.4	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.4
3.0	29.7	30.2	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.7
3.2	30.1	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.1	34.6	35.1
3.4	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	35.0	35.5
3.6	30.7	31.2	31.7	32.2	32.7	33.3	33.8	34.3	34.8	35.3	35.9
3.8	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.7	35.2	35.7	36.2
4.0	31.4	31.9	32.4	33.0	33.5	34.0	34.5	35.0	35.5	36.1	36.6
4.2	31.8	32.3	32.8	33.3	33.8	34.3	34.9	35.4	35.9	36.5	37.0
4.4	32.2	32.7	33.2	33.7	34.2	34.7	35.2	35.8	36.3	36.8	37.4
4.6	32.5	33.0	33.5	34.0	34.6	35.1	35.6	36.1	36.7	37.2	37.8
4.8	32.9	33.4	33.9	34.4	34.9	35.5	36.0	36.5	37.1	37.6	38.1
5.0	33.2	33.7	34.3	34.8	35.3	35.8	36.4	36.9	37.4	38.0	38.5
5.2	33.6	34.1	34.6	35.2	35.7	36.2	36.7	37.3	37.8	38.4	38.9
5.4	34.0	34.5	35.0	35.5	36.1	36.6	37.1	37.7	38.2	38.7	39.3
5.6	34.3	34.8	35.4	35.9	36.4	37.0	37.5	38.0	38.6	39.1	39.7
5.8	34.7	35.2	35.7	36.3	36.8	37.3	37.9	38.4	39.0	39.5	40.1
6.0	35.1	35.6	36.1	36.6	37.2	37.7	38.3	38.8	39.4	39.9	40.5
6.2	35.4	35.9	36.5	37.0	37.6	38.1	38.6	39.2	39.7	40.3	40.8
6.4	35.8	36.3	36.9	37.4	37.9	38.5	39.0	39.6	40.1	40.7	41.2
6.6	36.2	36.7	37.2	37.8	38.3	38.9	39.4	40.0	40.5	41.1	41.6
6.8	36.5	37.1	37.6	38.1	38.7	39.2	39.8	40.3	40.9	41.5	42.0
7.0	36.9	37.4	38.0	38.5	39.1	39.6	40.2	40.7	41.3	41.8	42.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.60	9.61	9.62	9.63	9.64	9.65	9.66	9.67	9.68	9.69	9.70
7.0	36.9	37.4	38.0	38.5	39.1	39.6	40.2	40.7	41.3	41.8	42.4
7.2	37.3	37.8	38.4	38.9	39.5	40.0	40.6	41.1	41.7	42.2	42.8
7.4	37.6	38.2	38.7	39.3	39.8	40.4	40.9	41.5	42.1	42.6	43.2
7.6	38.0	38.6	39.1	39.7	40.2	40.8	41.3	41.9	42.4	43.0	43.6
7.8	38.4	38.9	39.5	40.0	40.6	41.2	41.7	42.3	42.8	43.4	44.0
8.0	38.8	39.3	39.9	40.4	41.0	41.5	42.1	42.7	43.2	43.8	44.4
8.2	39.2	39.7	40.3	40.8	41.4	41.9	42.5	43.1	43.6	44.2	44.8
8.4	39.5	40.1	40.6	41.2	41.8	42.3	42.9	43.4	44.0	44.6	45.1
8.6	39.9	40.5	41.0	41.6	42.1	42.7	43.3	43.8	44.4	45.0	45.5
8.8	40.3	40.8	41.4	42.0	42.5	43.1	43.7	44.2	44.8	45.4	45.9
9.0	40.7	41.2	41.8	42.3	42.9	43.5	44.0	44.6	45.2	45.8	46.3
9.2	41.1	41.6	42.2	42.7	43.3	43.9	44.4	45.0	45.6	46.1	46.7
9.4	41.4	42.0	42.6	43.1	43.7	44.3	44.8	45.4	46.0	46.5	47.1
9.6	41.8	42.4	42.9	43.5	44.1	44.6	45.2	45.8	46.4	46.9	47.5
9.8	42.2	42.8	43.3	43.9	44.5	45.0	45.6	46.2	46.7	47.3	47.9
10.0	42.6	43.1	43.7	44.3	44.8	45.4	46.0	46.6	47.1	47.7	48.3
10.2	43.0	43.5	44.1	44.7	45.2	45.8	46.4	47.0	47.5	48.1	48.7
10.4	43.3	43.9	44.5	45.1	45.6	46.2	46.8	47.3	47.9	48.5	49.1
10.6	43.7	44.3	44.9	45.4	46.0	46.6	47.2	47.7	48.3	48.9	49.5
10.8	44.1	44.7	45.3	45.8	46.4	47.0	47.5	48.1	48.7	49.3	49.8
11.0	44.5	45.1	45.6	46.2	46.8	47.4	47.9	48.5	49.1	49.7	50.2
11.2	44.9	45.5	46.0	46.6	47.2	47.7	48.3	48.9	49.5	50.0	50.6
11.4	45.3	45.8	46.4	47.0	47.6	48.1	48.7	49.3	49.9	50.4	51.0
11.6	45.7	46.2	46.8	47.4	47.9	48.5	49.1	49.7	50.2	50.8	51.4
11.8	46.0	46.6	47.2	47.8	48.3	48.9	49.5	50.1	50.6	51.2	51.8
12.0	46.4	47.0	47.6	48.1	48.7	49.3	49.9	50.4	51.0	51.6	52.2
12.2	46.8	47.4	48.0	48.5	49.1	49.7	50.3	50.8	51.4	52.0	52.6
12.4	47.2	47.8	48.3	48.9	49.5	50.1	50.6	51.2	51.8	52.4	52.9
12.6	47.6	48.2	48.7	49.3	49.9	50.5	51.0	51.6	52.2	52.8	53.3
12.8	48.0	48.5	49.1	49.7	50.3	50.8	51.4	52.0	52.6	53.1	53.7
13.0	48.3	48.9	49.5	50.1	50.6	51.2	51.8	52.4	52.9	53.5	54.1
13.2	48.7	49.3	49.9	50.5	51.0	51.6	52.2	52.8	53.3	53.9	54.5
13.4	49.1	49.7	50.3	50.8	51.4	52.0	52.6	53.1	53.7	54.3	54.8
13.6	49.5	50.1	50.6	51.2	51.8	52.4	52.9	53.5	54.1	54.7	55.2
13.8	49.9	50.4	51.0	51.6	52.2	52.7	53.3	53.9	54.5	55.0	55.6
14.0	50.3	50.8	51.4	52.0	52.6	53.1	53.7	54.3	54.8	55.4	56.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.60	9.61	9.62	9.63	9.64	9.65	9.66	9.67	9.68	9.69	9.70
14.0	50.3	50.8	51.4	52.0	52.6	53.1	53.7	54.3	54.8	55.4	56.0
14.2	50.6	51.2	51.8	52.4	52.9	53.5	54.1	54.7	55.2	55.8	56.4
14.4	51.0	51.6	52.2	52.7	53.3	53.9	54.5	55.0	55.6	56.2	56.7
14.6	51.4	52.0	52.5	53.1	53.7	54.3	54.8	55.4	56.0	56.5	57.1
14.8	51.8	52.3	52.9	53.5	54.1	54.6	55.2	55.8	56.3	56.9	57.5
15.0	52.2	52.7	53.3	53.9	54.4	55.0	55.6	56.2	56.7	57.3	57.8
15.2	52.5	53.1	53.7	54.2	54.8	55.4	56.0	56.5	57.1	57.7	58.2
15.4	52.9	53.5	54.1	54.6	55.2	55.8	56.3	56.9	57.5	58.0	58.6
15.6	53.3	53.9	54.4	55.0	55.6	56.1	56.7	57.3	57.8	58.4	58.9
15.8	53.7	54.2	54.8	55.4	55.9	56.5	57.1	57.6	58.2	58.8	59.3
16.0	54.0	54.6	55.2	55.7	56.3	56.9	57.4	58.0	58.6	59.1	59.7
16.2	54.4	55.0	55.5	56.1	56.7	57.2	57.8	58.4	58.9	59.5	60.0
16.4	54.8	55.3	55.9	56.5	57.0	57.6	58.2	58.7	59.3	59.8	60.4
16.6	55.1	55.7	56.3	56.8	57.4	58.0	58.5	59.1	59.6	60.2	60.7
16.8	55.5	56.1	56.6	57.2	57.8	58.3	58.9	59.5	60.0	60.6	61.1
17.0	55.9	56.4	57.0	57.6	58.1	58.7	59.3	59.8	60.4	60.9	61.5
17.2	56.2	56.8	57.4	57.9	58.5	59.1	59.6	60.2	60.7	61.3	61.8
17.4	56.6	57.2	57.7	58.3	58.9	59.4	60.0	60.5	61.1	61.6	62.2
17.6	57.0	57.5	58.1	58.7	59.2	59.8	60.3	60.9	61.4	62.0	62.5
17.8	57.3	57.9	58.5	59.0	59.6	60.1	60.7	61.2	61.8	62.3	62.9
18.0	57.7	58.3	58.8	59.4	59.9	60.5	61.0	61.6	62.1	62.7	63.2
18.2	58.1	58.6	59.2	59.7	60.3	60.8	61.4	61.9	62.5	63.0	63.5
18.4	58.4	59.0	59.5	60.1	60.6	61.2	61.7	62.3	62.8	63.4	63.9
18.6	58.8	59.3	59.9	60.4	61.0	61.5	62.1	62.6	63.2	63.7	64.2
18.8	59.1	59.7	60.3	60.8	61.3	61.9	62.4	63.0	63.5	64.0	64.6
19.0	59.5	60.1	60.6	61.2	61.7	62.2	62.8	63.3	63.8	64.4	64.9
19.2	59.9	60.4	61.0	61.5	62.0	62.6	63.1	63.7	64.2	64.7	65.2
19.4	60.2	60.8	61.3	61.8	62.4	62.9	63.5	64.0	64.5	65.0	65.6
19.6	60.6	61.1	61.7	62.2	62.7	63.3	63.8	64.3	64.9	65.4	65.9
19.8	60.9	61.5	62.0	62.5	63.1	63.6	64.1	64.7	65.2	65.7	66.2
20.0	61.3	61.8	62.3	62.9	63.4	63.9	64.5	65.0	65.5	66.0	66.6
20.2	61.6	62.1	62.7	63.2	63.8	64.3	64.8	65.3	65.9	66.4	66.9
20.4	61.9	62.5	63.0	63.6	64.1	64.6	65.1	65.7	66.2	66.7	67.2
20.6	62.3	62.8	63.4	63.9	64.4	65.0	65.5	66.0	66.5	67.0	67.5
20.8	62.6	63.2	63.7	64.2	64.8	65.3	65.8	66.3	66.8	67.3	67.8
21.0	63.0	63.5	64.0	64.6	65.1	65.6	66.1	66.6	67.2	67.7	68.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.60	9.61	9.62	9.63	9.64	9.65	9.66	9.67	9.68	9.69	9.70
21.0	63.0	63.5	64.0	64.6	65.1	65.6	66.1	66.6	67.2	67.7	68.2
21.2	63.3	63.8	64.4	64.9	65.4	65.9	66.5	67.0	67.5	68.0	68.5
21.4	63.6	64.2	64.7	65.2	65.7	66.3	66.8	67.3	67.8	68.3	68.8
21.6	64.0	64.5	65.0	65.6	66.1	66.6	67.1	67.6	68.1	68.6	69.1
21.8	64.3	64.8	65.4	65.9	66.4	66.9	67.4	67.9	68.4	68.9	69.4
22.0	64.6	65.2	65.7	66.2	66.7	67.2	67.7	68.2	68.7	69.2	69.7
22.2	65.0	65.5	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0
22.4	65.3	65.8	66.3	66.8	67.4	67.9	68.4	68.9	69.3	69.8	70.3
22.6	65.6	66.1	66.7	67.2	67.7	68.2	68.7	69.2	69.6	70.1	70.6
22.8	65.9	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.4	70.9
23.0	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3	70.7	71.2
23.2	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.5	71.0	71.5
23.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.8	71.3	71.8
23.6	67.2	67.7	68.2	68.7	69.2	69.7	70.2	70.7	71.1	71.6	72.1
23.8	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.4	71.9	72.4
24.0	67.8	68.3	68.8	69.3	69.8	70.3	70.8	71.3	71.7	72.2	72.6
24.2	68.1	68.6	69.1	69.6	70.1	70.6	71.1	71.5	72.0	72.5	72.9
24.4	68.5	69.0	69.4	69.9	70.4	70.9	71.4	71.8	72.3	72.8	73.2
24.6	68.8	69.3	69.7	70.2	70.7	71.2	71.7	72.1	72.6	73.0	73.5
24.8	69.1	69.6	70.0	70.5	71.0	71.5	71.9	72.4	72.9	73.3	73.8
25.0	69.4	69.9	70.3	70.8	71.3	71.8	72.2	72.7	73.1	73.6	74.0
25.2	69.7	70.2	70.6	71.1	71.6	72.0	72.5	73.0	73.4	73.9	74.3
25.4	70.0	70.4	70.9	71.4	71.9	72.3	72.8	73.2	73.7	74.1	74.6
25.6	70.3	70.7	71.2	71.7	72.1	72.6	73.1	73.5	74.0	74.4	74.8
25.8	70.6	71.0	71.5	72.0	72.4	72.9	73.3	73.8	74.2	74.7	75.1
26.0	70.8	71.3	71.8	72.2	72.7	73.2	73.6	74.1	74.5	74.9	75.4
26.2	71.1	71.6	72.1	72.5	73.0	73.4	73.9	74.3	74.8	75.2	75.6
26.4	71.4	71.9	72.3	72.8	73.3	73.7	74.2	74.6	75.0	75.5	75.9
26.6	71.7	72.2	72.6	73.1	73.5	74.0	74.4	74.9	75.3	75.7	76.1
26.8	72.0	72.4	72.9	73.4	73.8	74.2	74.7	75.1	75.5	76.0	76.4
27.0	72.3	72.7	73.2	73.6	74.1	74.5	74.9	75.4	75.8	76.2	76.6
27.2	72.5	73.0	73.5	73.9	74.3	74.8	75.2	75.6	76.1	76.5	76.9
27.4	72.8	73.3	73.7	74.2	74.6	75.0	75.5	75.9	76.3	76.7	77.1
27.6	73.1	73.5	74.0	74.4	74.9	75.3	75.7	76.1	76.6	77.0	77.4
27.8	73.4	73.8	74.3	74.7	75.1	75.6	76.0	76.4	76.8	77.2	77.6
28.0	73.6	74.1	74.5	75.0	75.4	75.8	76.2	76.6	77.1	77.5	77.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.60	9.61	9.62	9.63	9.64	9.65	9.66	9.67	9.68	9.69	9.70
28.0	73.6	74.1	74.5	75.0	75.4	75.8	76.2	76.6	77.1	77.5	77.9
28.2	73.9	74.3	74.8	75.2	75.6	76.1	76.5	76.9	77.3	77.7	78.1
28.4	74.2	74.6	75.0	75.5	75.9	76.3	76.7	77.1	77.5	77.9	78.3
28.6	74.4	74.9	75.3	75.7	76.1	76.6	77.0	77.4	77.8	78.2	78.6
28.8	74.7	75.1	75.6	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8
29.0	75.0	75.4	75.8	76.2	76.6	77.1	77.5	77.9	78.3	78.6	79.0
29.2	75.2	75.6	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.3
29.4	75.5	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5
29.6	75.7	76.1	76.6	77.0	77.4	77.8	78.2	78.6	78.9	79.3	79.7
29.8	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2	79.6	79.9
30.0	76.2	76.6	77.0	77.5	77.9	78.2	78.6	79.0	79.4	79.8	80.1
30.2	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.2	79.6	80.0	80.4
30.4	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6
30.6	77.0	77.4	77.8	78.2	78.5	78.9	79.3	79.7	80.1	80.4	80.8
30.8	77.2	77.6	78.0	78.4	78.8	79.2	79.5	79.9	80.3	80.6	81.0
31.0	77.4	77.8	78.2	78.6	79.0	79.4	79.8	80.1	80.5	80.8	81.2
31.2	77.7	78.1	78.5	78.8	79.2	79.6	80.0	80.3	80.7	81.1	81.4
31.4	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6	80.9	81.3	81.6
31.6	78.1	78.5	78.9	79.3	79.7	80.0	80.4	80.8	81.1	81.5	81.8
31.8	78.4	78.8	79.1	79.5	79.9	80.3	80.6	81.0	81.3	81.7	82.0
32.0	78.6	79.0	79.4	79.7	80.1	80.5	80.8	81.2	81.5	81.9	82.2
32.2	78.8	79.2	79.6	80.0	80.3	80.7	81.0	81.4	81.7	82.1	82.4
32.4	79.0	79.4	79.8	80.2	80.5	80.9	81.2	81.6	81.9	82.3	82.6
32.6	79.3	79.6	80.0	80.4	80.7	81.1	81.4	81.8	82.1	82.5	82.8
32.8	79.5	79.9	80.2	80.6	80.9	81.3	81.6	82.0	82.3	82.7	83.0
33.0	79.7	80.1	80.4	80.8	81.2	81.5	81.8	82.2	82.5	82.9	83.2
33.2	79.9	80.3	80.7	81.0	81.4	81.7	82.0	82.4	82.7	83.0	83.4
33.4	80.1	80.5	80.9	81.2	81.6	81.9	82.2	82.6	82.9	83.2	83.5
33.6	80.3	80.7	81.1	81.4	81.8	82.1	82.4	82.8	83.1	83.4	83.7
33.8	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9
34.0	80.8	81.1	81.5	81.8	82.2	82.5	82.8	83.1	83.5	83.8	84.1
34.2	81.0	81.3	81.7	82.0	82.3	82.7	83.0	83.3	83.6	84.0	84.3
34.4	81.2	81.5	81.9	82.2	82.5	82.9	83.2	83.5	83.8	84.1	84.4
34.6	81.4	81.7	82.1	82.4	82.7	83.1	83.4	83.7	84.0	84.3	84.6
34.8	81.6	81.9	82.3	82.6	82.9	83.2	83.6	83.9	84.2	84.5	84.8
35.0	81.8	82.1	82.5	82.8	83.1	83.4	83.7	84.1	84.4	84.7	85.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.60	9.61	9.62	9.63	9.64	9.65	9.66	9.67	9.68	9.69	9.70
35.0	81.8	82.1	82.5	82.8	83.1	83.4	83.7	84.1	84.4	84.7	85.0
35.2	82.0	82.3	82.6	83.0	83.3	83.6	83.9	84.2	84.5	84.8	85.1
35.4	82.2	82.5	82.8	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3
35.6	82.4	82.7	83.0	83.3	83.7	84.0	84.3	84.6	84.9	85.2	85.5
35.8	82.5	82.9	83.2	83.5	83.8	84.1	84.5	84.8	85.0	85.3	85.6
36.0	82.7	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8
36.2	82.9	83.2	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	85.9
36.4	83.1	83.4	83.7	84.1	84.4	84.7	85.0	85.3	85.5	85.8	86.1
36.6	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.3
36.8	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.1	86.4
37.0	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.7	86.0	86.3	86.6
37.2	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4	86.7
37.4	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.1	86.3	86.6	86.9
37.6	84.2	84.5	84.8	85.1	85.4	85.7	85.9	86.2	86.5	86.7	87.0
37.8	84.4	84.7	85.0	85.2	85.5	85.8	86.1	86.4	86.6	86.9	87.2
38.0	84.5	84.8	85.1	85.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3
38.2	84.7	85.0	85.3	85.6	85.8	86.1	86.4	86.7	86.9	87.2	87.4
38.4	84.9	85.2	85.4	85.7	86.0	86.3	86.6	86.8	87.1	87.3	87.6
38.6	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0	87.2	87.5	87.7
38.8	85.2	85.5	85.8	86.0	86.3	86.6	86.8	87.1	87.4	87.6	87.9
39.0	85.4	85.6	85.9	86.2	86.5	86.7	87.0	87.3	87.5	87.8	88.0
39.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1
39.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0	88.3
39.6	85.8	86.1	86.4	86.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4
39.8	86.0	86.3	86.5	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5
40.0	86.1	86.4	86.7	86.9	87.2	87.5	87.7	88.0	88.2	88.4	88.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.70	9.71	9.72	9.73	9.74	9.75	9.76	9.77	9.78	9.79	9.80
.0	29.3	29.8	30.3	30.8	31.2	31.7	32.2	32.7	33.3	33.8	34.3
.2	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.7
.4	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0
.6	30.4	30.8	31.3	31.8	32.3	32.8	33.4	33.9	34.4	34.9	35.4
.8	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.8	35.3	35.8
1.0	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.1	35.7	36.2
1.2	31.4	31.9	32.4	32.9	33.4	34.0	34.5	35.0	35.5	36.1	36.6
1.4	31.8	32.3	32.8	33.3	33.8	34.3	34.9	35.4	35.9	36.4	37.0
1.6	32.1	32.7	33.2	33.7	34.2	34.7	35.2	35.8	36.3	36.8	37.4
1.8	32.5	33.0	33.5	34.0	34.6	35.1	35.6	36.1	36.7	37.2	37.8
2.0	32.9	33.4	33.9	34.4	34.9	35.5	36.0	36.5	37.1	37.6	38.1
2.2	33.2	33.8	34.3	34.8	35.3	35.8	36.4	36.9	37.5	38.0	38.5
2.4	33.6	34.1	34.6	35.2	35.7	36.2	36.8	37.3	37.8	38.4	38.9
2.6	34.0	34.5	35.0	35.5	36.1	36.6	37.1	37.7	38.2	38.8	39.3
2.8	34.4	34.9	35.4	35.9	36.5	37.0	37.5	38.1	38.6	39.2	39.7
3.0	34.7	35.3	35.8	36.3	36.8	37.4	37.9	38.5	39.0	39.6	40.1
3.2	35.1	35.6	36.2	36.7	37.2	37.8	38.3	38.9	39.4	40.0	40.5
3.4	35.5	36.0	36.5	37.1	37.6	38.2	38.7	39.2	39.8	40.3	40.9
3.6	35.9	36.4	36.9	37.5	38.0	38.5	39.1	39.6	40.2	40.7	41.3
3.8	36.2	36.8	37.3	37.8	38.4	38.9	39.5	40.0	40.6	41.1	41.7
4.0	36.6	37.1	37.7	38.2	38.8	39.3	39.9	40.4	41.0	41.5	42.1
4.2	37.0	37.5	38.1	38.6	39.2	39.7	40.3	40.8	41.4	41.9	42.5
4.4	37.4	37.9	38.5	39.0	39.6	40.1	40.7	41.2	41.8	42.3	42.9
4.6	37.8	38.3	38.8	39.4	39.9	40.5	41.1	41.6	42.2	42.7	43.3
4.8	38.1	38.7	39.2	39.8	40.3	40.9	41.4	42.0	42.6	43.1	43.7
5.0	38.5	39.1	39.6	40.2	40.7	41.3	41.8	42.4	43.0	43.5	44.1
5.2	38.9	39.5	40.0	40.6	41.1	41.7	42.2	42.8	43.4	43.9	44.5
5.4	39.3	39.8	40.4	41.0	41.5	42.1	42.6	43.2	43.8	44.3	44.9
5.6	39.7	40.2	40.8	41.3	41.9	42.5	43.0	43.6	44.2	44.7	45.3
5.8	40.1	40.6	41.2	41.7	42.3	42.9	43.4	44.0	44.6	45.1	45.7
6.0	40.5	41.0	41.6	42.1	42.7	43.3	43.8	44.4	45.0	45.5	46.1
6.2	40.8	41.4	42.0	42.5	43.1	43.7	44.2	44.8	45.4	45.9	46.5
6.4	41.2	41.8	42.4	42.9	43.5	44.0	44.6	45.2	45.8	46.3	46.9
6.6	41.6	42.2	42.7	43.3	43.9	44.4	45.0	45.6	46.2	46.7	47.3
6.8	42.0	42.6	43.1	43.7	44.3	44.8	45.4	46.0	46.6	47.1	47.7
7.0	42.4	43.0	43.5	44.1	44.7	45.2	45.8	46.4	47.0	47.5	48.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.70	9.71	9.72	9.73	9.74	9.75	9.76	9.77	9.78	9.79	9.80
7.0	42.4	43.0	43.5	44.1	44.7	45.2	45.8	46.4	47.0	47.5	48.1
7.2	42.8	43.4	43.9	44.5	45.1	45.6	46.2	46.8	47.4	47.9	48.5
7.4	43.2	43.8	44.3	44.9	45.5	46.0	46.6	47.2	47.8	48.3	48.9
7.6	43.6	44.1	44.7	45.3	45.9	46.4	47.0	47.6	48.1	48.7	49.3
7.8	44.0	44.5	45.1	45.7	46.3	46.8	47.4	48.0	48.5	49.1	49.7
8.0	44.4	44.9	45.5	46.1	46.6	47.2	47.8	48.4	48.9	49.5	50.1
8.2	44.8	45.3	45.9	46.5	47.0	47.6	48.2	48.8	49.3	49.9	50.5
8.4	45.1	45.7	46.3	46.9	47.4	48.0	48.6	49.2	49.7	50.3	50.9
8.6	45.5	46.1	46.7	47.3	47.8	48.4	49.0	49.6	50.1	50.7	51.3
8.8	45.9	46.5	47.1	47.7	48.2	48.8	49.4	50.0	50.5	51.1	51.7
9.0	46.3	46.9	47.5	48.0	48.6	49.2	49.8	50.3	50.9	51.5	52.1
9.2	46.7	47.3	47.9	48.4	49.0	49.6	50.2	50.7	51.3	51.9	52.5
9.4	47.1	47.7	48.3	48.8	49.4	50.0	50.6	51.1	51.7	52.3	52.9
9.6	47.5	48.1	48.7	49.2	49.8	50.4	51.0	51.5	52.1	52.7	53.3
9.8	47.9	48.5	49.0	49.6	50.2	50.8	51.3	51.9	52.5	53.1	53.6
10.0	48.3	48.9	49.4	50.0	50.6	51.2	51.7	52.3	52.9	53.5	54.0
10.2	48.7	49.3	49.8	50.4	51.0	51.6	52.1	52.7	53.3	53.8	54.4
10.4	49.1	49.6	50.2	50.8	51.4	51.9	52.5	53.1	53.7	54.2	54.8
10.6	49.5	50.0	50.6	51.2	51.8	52.3	52.9	53.5	54.1	54.6	55.2
10.8	49.8	50.4	51.0	51.6	52.1	52.7	53.3	53.9	54.4	55.0	55.6
11.0	50.2	50.8	51.4	52.0	52.5	53.1	53.7	54.3	54.8	55.4	56.0
11.2	50.6	51.2	51.8	52.3	52.9	53.5	54.1	54.6	55.2	55.8	56.3
11.4	51.0	51.6	52.2	52.7	53.3	53.9	54.5	55.0	55.6	56.2	56.7
11.6	51.4	52.0	52.5	53.1	53.7	54.3	54.8	55.4	56.0	56.5	57.1
11.8	51.8	52.4	52.9	53.5	54.1	54.7	55.2	55.8	56.4	56.9	57.5
12.0	52.2	52.7	53.3	53.9	54.5	55.0	55.6	56.2	56.7	57.3	57.9
12.2	52.6	53.1	53.7	54.3	54.8	55.4	56.0	56.6	57.1	57.7	58.2
12.4	52.9	53.5	54.1	54.7	55.2	55.8	56.4	56.9	57.5	58.1	58.6
12.6	53.3	53.9	54.5	55.0	55.6	56.2	56.7	57.3	57.9	58.4	59.0
12.8	53.7	54.3	54.9	55.4	56.0	56.6	57.1	57.7	58.2	58.8	59.4
13.0	54.1	54.7	55.2	55.8	56.4	56.9	57.5	58.1	58.6	59.2	59.7
13.2	54.5	55.0	55.6	56.2	56.7	57.3	57.9	58.4	59.0	59.5	60.1
13.4	54.8	55.4	56.0	56.6	57.1	57.7	58.2	58.8	59.4	59.9	60.5
13.6	55.2	55.8	56.4	56.9	57.5	58.1	58.6	59.2	59.7	60.3	60.8
13.8	55.6	56.2	56.7	57.3	57.9	58.4	59.0	59.5	60.1	60.6	61.2
14.0	56.0	56.5	57.1	57.7	58.2	58.8	59.4	59.9	60.5	61.0	61.6

TEMP DEG C	PH 9.70	9.71	9.72	9.73	9.74	9.75	9.76	9.77	9.78	9.79	9.80
14.0	56.0	56.5	57.1	57.7	58.2	58.8	59.4	59.9	60.5	61.0	61.6
14.2	56.4	56.9	57.5	58.0	58.6	59.2	59.7	60.3	60.8	61.4	61.9
14.4	56.7	57.3	57.9	58.4	59.0	59.5	60.1	60.6	61.2	61.7	62.3
14.6	57.1	57.7	58.2	58.8	59.3	59.9	60.4	61.0	61.5	62.1	62.6
14.8	57.5	58.0	58.6	59.2	59.7	60.3	60.8	61.4	61.9	62.4	63.0
15.0	57.8	58.4	59.0	59.5	60.1	60.6	61.2	61.7	62.3	62.8	63.3
15.2	58.2	58.8	59.3	59.9	60.4	61.0	61.5	62.1	62.6	63.2	63.7
15.4	58.6	59.1	59.7	60.2	60.8	61.3	61.9	62.4	63.0	63.5	64.0
15.6	58.9	59.5	60.1	60.6	61.2	61.7	62.2	62.8	63.3	63.9	64.4
15.8	59.3	59.9	60.4	61.0	61.5	62.1	62.6	63.1	63.7	64.2	64.7
16.0	59.7	60.2	60.8	61.3	61.9	62.4	62.9	63.5	64.0	64.5	65.1
16.2	60.0	60.6	61.1	61.7	62.2	62.8	63.3	63.8	64.4	64.9	65.4
16.4	60.4	60.9	61.5	62.0	62.6	63.1	63.6	64.2	64.7	65.2	65.7
16.6	60.7	61.3	61.8	62.4	62.9	63.5	64.0	64.5	65.0	65.6	66.1
16.8	61.1	61.6	62.2	62.7	63.3	63.8	64.3	64.9	65.4	65.9	66.4
17.0	61.5	62.0	62.5	63.1	63.6	64.1	64.7	65.2	65.7	66.2	66.7
17.2	61.8	62.4	62.9	63.4	64.0	64.5	65.0	65.5	66.1	66.6	67.1
17.4	62.2	62.7	63.2	63.8	64.3	64.8	65.4	65.9	66.4	66.9	67.4
17.6	62.5	63.0	63.6	64.1	64.6	65.2	65.7	66.2	66.7	67.2	67.7
17.8	62.9	63.4	63.9	64.5	65.0	65.5	66.0	66.5	67.0	67.6	68.1
18.0	63.2	63.7	64.3	64.8	65.3	65.8	66.4	66.9	67.4	67.9	68.4
18.2	63.5	64.1	64.6	65.1	65.7	66.2	66.7	67.2	67.7	68.2	68.7
18.4	63.9	64.4	64.9	65.5	66.0	66.5	67.0	67.5	68.0	68.5	69.0
18.6	64.2	64.8	65.3	65.8	66.3	66.8	67.3	67.8	68.3	68.8	69.3
18.8	64.6	65.1	65.6	66.1	66.6	67.2	67.7	68.2	68.7	69.2	69.6
19.0	64.9	65.4	65.9	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0
19.2	65.2	65.8	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3
19.4	65.6	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.6
19.6	65.9	66.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.9
19.8	66.2	66.7	67.3	67.8	68.3	68.8	69.2	69.7	70.2	70.7	71.2
20.0	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.0	70.5	71.0	71.5
20.2	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.3	70.8	71.3	71.8
20.4	67.2	67.7	68.2	68.7	69.2	69.7	70.2	70.7	71.1	71.6	72.1
20.6	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.4	71.9	72.4
20.8	67.8	68.3	68.8	69.3	69.8	70.3	70.8	71.3	71.7	72.2	72.6
21.0	68.2	68.7	69.1	69.6	70.1	70.6	71.1	71.5	72.0	72.5	72.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.70	9.71	9.72	9.73	9.74	9.75	9.76	9.77	9.78	9.79	9.80
21.0	68.2	68.7	69.1	69.6	70.1	70.6	71.1	71.5	72.0	72.5	72.9
21.2	68.5	69.0	69.5	69.9	70.4	70.9	71.4	71.8	72.3	72.8	73.2
21.4	68.8	69.3	69.8	70.2	70.7	71.2	71.7	72.1	72.6	73.1	73.5
21.6	69.1	69.6	70.1	70.5	71.0	71.5	72.0	72.4	72.9	73.3	73.8
21.8	69.4	69.9	70.4	70.8	71.3	71.8	72.3	72.7	73.2	73.6	74.1
22.0	69.7	70.2	70.7	71.1	71.6	72.1	72.5	73.0	73.5	73.9	74.3
22.2	70.0	70.5	71.0	71.4	71.9	72.4	72.8	73.3	73.7	74.2	74.6
22.4	70.3	70.8	71.3	71.7	72.2	72.7	73.1	73.6	74.0	74.4	74.9
22.6	70.6	71.1	71.6	72.0	72.5	72.9	73.4	73.8	74.3	74.7	75.2
22.8	70.9	71.4	71.8	72.3	72.8	73.2	73.7	74.1	74.6	75.0	75.4
23.0	71.2	71.7	72.1	72.6	73.1	73.5	74.0	74.4	74.8	75.3	75.7
23.2	71.5	72.0	72.4	72.9	73.3	73.8	74.2	74.7	75.1	75.5	75.9
23.4	71.8	72.3	72.7	73.2	73.6	74.1	74.5	74.9	75.4	75.8	76.2
23.6	72.1	72.5	73.0	73.4	73.9	74.3	74.8	75.2	75.6	76.1	76.5
23.8	72.4	72.8	73.3	73.7	74.2	74.6	75.0	75.5	75.9	76.3	76.7
24.0	72.6	73.1	73.6	74.0	74.4	74.9	75.3	75.7	76.1	76.6	77.0
24.2	72.9	73.4	73.8	74.3	74.7	75.1	75.6	76.0	76.4	76.8	77.2
24.4	73.2	73.7	74.1	74.5	75.0	75.4	75.8	76.2	76.7	77.1	77.5
24.6	73.5	73.9	74.4	74.8	75.2	75.7	76.1	76.5	76.9	77.3	77.7
24.8	73.8	74.2	74.6	75.1	75.5	75.9	76.3	76.8	77.2	77.6	78.0
25.0	74.0	74.5	74.9	75.3	75.8	76.2	76.6	77.0	77.4	77.8	78.2
25.2	74.3	74.7	75.2	75.6	76.0	76.4	76.9	77.3	77.7	78.1	78.4
25.4	74.6	75.0	75.4	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7
25.6	74.8	75.3	75.7	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9
25.8	75.1	75.5	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2
26.0	75.4	75.8	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.4
26.2	75.6	76.0	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.2	79.6
26.4	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.8
26.6	76.1	76.6	77.0	77.4	77.8	78.2	78.6	78.9	79.3	79.7	80.1
26.8	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2	79.5	79.9	80.3
27.0	76.6	77.0	77.5	77.9	78.2	78.6	79.0	79.4	79.8	80.1	80.5
27.2	76.9	77.3	77.7	78.1	78.5	78.9	79.3	79.6	80.0	80.4	80.7
27.4	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.9	80.2	80.6	80.9
27.6	77.4	77.8	78.2	78.6	78.9	79.3	79.7	80.1	80.4	80.8	81.2
27.8	77.6	78.0	78.4	78.8	79.2	79.6	79.9	80.3	80.7	81.0	81.4
28.0	77.9	78.3	78.6	79.0	79.4	79.8	80.1	80.5	80.9	81.2	81.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.70	9.71	9.72	9.73	9.74	9.75	9.76	9.77	9.78	9.79	9.80
28.0	77.9	78.3	78.6	79.0	79.4	79.8	80.1	80.5	80.9	81.2	81.6
28.2	78.1	78.5	78.9	79.3	79.6	80.0	80.4	80.7	81.1	81.4	81.8
28.4	78.3	78.7	79.1	79.5	79.9	80.2	80.6	80.9	81.3	81.6	82.0
28.6	78.6	79.0	79.3	79.7	80.1	80.4	80.8	81.2	81.5	81.9	82.2
28.8	78.8	79.2	79.6	79.9	80.3	80.7	81.0	81.4	81.7	82.1	82.4
29.0	79.0	79.4	79.8	80.1	80.5	80.9	81.2	81.6	81.9	82.3	82.6
29.2	79.3	79.6	80.0	80.4	80.7	81.1	81.4	81.8	82.1	82.5	82.8
29.4	79.5	79.9	80.2	80.6	80.9	81.3	81.6	82.0	82.3	82.7	83.0
29.6	79.7	80.1	80.4	80.8	81.2	81.5	81.8	82.2	82.5	82.8	83.2
29.8	79.9	80.3	80.7	81.0	81.4	81.7	82.0	82.4	82.7	83.0	83.4
30.0	80.1	80.5	80.9	81.2	81.6	81.9	82.2	82.6	82.9	83.2	83.6
30.2	80.4	80.7	81.1	81.4	81.8	82.1	82.4	82.8	83.1	83.4	83.7
30.4	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9
30.6	80.8	81.1	81.5	81.8	82.2	82.5	82.8	83.2	83.5	83.8	84.1
30.8	81.0	81.3	81.7	82.0	82.4	82.7	83.0	83.4	83.7	84.0	84.3
31.0	81.2	81.6	81.9	82.2	82.6	82.9	83.2	83.5	83.9	84.2	84.5
31.2	81.4	81.8	82.1	82.4	82.8	83.1	83.4	83.7	84.0	84.3	84.6
31.4	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9	84.2	84.5	84.8
31.6	81.8	82.2	82.5	82.8	83.1	83.5	83.8	84.1	84.4	84.7	85.0
31.8	82.0	82.4	82.7	83.0	83.3	83.7	84.0	84.3	84.6	84.9	85.2
32.0	82.2	82.5	82.9	83.2	83.5	83.8	84.1	84.5	84.8	85.0	85.3
32.2	82.4	82.7	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5
32.4	82.6	82.9	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7
32.6	82.8	83.1	83.4	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.8
32.8	83.0	83.3	83.6	83.9	84.2	84.6	84.9	85.1	85.4	85.7	86.0
33.0	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2
33.2	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.0	86.3
33.4	83.5	83.9	84.2	84.5	84.8	85.1	85.4	85.6	85.9	86.2	86.5
33.6	83.7	84.0	84.3	84.7	84.9	85.2	85.5	85.8	86.1	86.4	86.6
33.8	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.2	86.5	86.8
34.0	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.1	86.4	86.7	86.9
34.2	84.3	84.6	84.9	85.2	85.5	85.7	86.0	86.3	86.6	86.8	87.1
34.4	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0	87.2
34.6	84.6	84.9	85.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1	87.4
34.8	84.8	85.1	85.4	85.7	85.9	86.2	86.5	86.8	87.0	87.3	87.5
35.0	85.0	85.3	85.5	85.8	86.1	86.4	86.6	86.9	87.2	87.4	87.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.70	9.71	9.72	9.73	9.74	9.75	9.76	9.77	9.78	9.79	9.80
35.0	85.0	85.3	85.5	85.8	86.1	86.4	86.6	86.9	87.2	87.4	87.7
35.2	85.1	85.4	85.7	86.0	86.3	86.5	86.8	87.1	87.3	87.6	87.8
35.4	85.3	85.6	85.9	86.1	86.4	86.7	86.9	87.2	87.5	87.7	88.0
35.6	85.5	85.7	86.0	86.3	86.6	86.8	87.1	87.3	87.6	87.8	88.1
35.8	85.6	85.9	86.2	86.5	86.7	87.0	87.2	87.5	87.7	88.0	88.2
36.0	85.8	86.1	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4
36.2	85.9	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0	88.3	88.5
36.4	86.1	86.4	86.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6
36.6	86.3	86.5	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5	88.8
36.8	86.4	86.7	86.9	87.2	87.5	87.7	88.0	88.2	88.4	88.7	88.9
37.0	86.6	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.6	88.8	89.0
37.2	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9	89.2
37.4	86.9	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1	89.3
37.6	87.0	87.3	87.5	87.8	88.0	88.3	88.5	88.7	89.0	89.2	89.4
37.8	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1	89.3	89.5
38.0	87.3	87.6	87.8	88.0	88.3	88.5	88.8	89.0	89.2	89.4	89.6
38.2	87.4	87.7	87.9	88.2	88.4	88.7	88.9	89.1	89.3	89.6	89.8
38.4	87.6	87.8	88.1	88.3	88.6	88.8	89.0	89.2	89.5	89.7	89.9
38.6	87.7	88.0	88.2	88.5	88.7	88.9	89.1	89.4	89.6	89.8	90.0
38.8	87.9	88.1	88.3	88.6	88.8	89.0	89.3	89.5	89.7	89.9	90.1
39.0	88.0	88.2	88.5	88.7	88.9	89.2	89.4	89.6	89.8	90.0	90.2
39.2	88.1	88.4	88.6	88.8	89.1	89.3	89.5	89.7	89.9	90.1	90.3
39.4	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8	90.0	90.3	90.5
39.6	88.4	88.6	88.9	89.1	89.3	89.5	89.7	90.0	90.2	90.4	90.6
39.8	88.5	88.8	89.0	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7
40.0	88.7	88.9	89.1	89.3	89.6	89.8	90.0	90.2	90.4	90.6	90.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.80	9.81	9.82	9.83	9.84	9.85	9.86	9.87	9.88	9.89	9.90
.0	34.3	34.8	35.3	35.9	36.4	36.9	37.5	38.0	38.5	39.1	39.6
.2	34.7	35.2	35.7	36.2	36.8	37.3	37.9	38.4	38.9	39.5	40.0
.4	35.0	35.6	36.1	36.6	37.2	37.7	38.3	38.8	39.3	39.9	40.4
.6	35.4	36.0	36.5	37.0	37.6	38.1	38.6	39.2	39.7	40.3	40.9
.8	35.8	36.3	36.9	37.4	38.0	38.5	39.0	39.6	40.1	40.7	41.3
1.0	36.2	36.7	37.3	37.8	38.4	38.9	39.4	40.0	40.6	41.1	41.7
1.2	36.6	37.1	37.7	38.2	38.7	39.3	39.8	40.4	41.0	41.5	42.1
1.4	37.0	37.5	38.1	38.6	39.1	39.7	40.2	40.8	41.4	41.9	42.5
1.6	37.4	37.9	38.4	39.0	39.5	40.1	40.6	41.2	41.8	42.3	42.9
1.8	37.8	38.3	38.8	39.4	39.9	40.5	41.0	41.6	42.2	42.7	43.3
2.0	38.1	38.7	39.2	39.8	40.3	40.9	41.5	42.0	42.6	43.1	43.7
2.2	38.5	39.1	39.6	40.2	40.7	41.3	41.9	42.4	43.0	43.5	44.1
2.4	38.9	39.5	40.0	40.6	41.1	41.7	42.3	42.8	43.4	44.0	44.5
2.6	39.3	39.9	40.4	41.0	41.5	42.1	42.7	43.2	43.8	44.4	44.9
2.8	39.7	40.3	40.8	41.4	41.9	42.5	43.1	43.6	44.2	44.8	45.3
3.0	40.1	40.7	41.2	41.8	42.3	42.9	43.5	44.0	44.6	45.2	45.7
3.2	40.5	41.1	41.6	42.2	42.7	43.3	43.9	44.4	45.0	45.6	46.2
3.4	40.9	41.5	42.0	42.6	43.1	43.7	44.3	44.9	45.4	46.0	46.6
3.6	41.3	41.9	42.4	43.0	43.6	44.1	44.7	45.3	45.8	46.4	47.0
3.8	41.7	42.3	42.8	43.4	44.0	44.5	45.1	45.7	46.2	46.8	47.4
4.0	42.1	42.7	43.2	43.8	44.4	44.9	45.5	46.1	46.6	47.2	47.8
4.2	42.5	43.1	43.6	44.2	44.8	45.3	45.9	46.5	47.0	47.6	48.2
4.4	42.9	43.5	44.0	44.6	45.2	45.7	46.3	46.9	47.5	48.0	48.6
4.6	43.3	43.9	44.4	45.0	45.6	46.1	46.7	47.3	47.9	48.4	49.0
4.8	43.7	44.3	44.8	45.4	46.0	46.5	47.1	47.7	48.3	48.8	49.4
5.0	44.1	44.7	45.2	45.8	46.4	47.0	47.5	48.1	48.7	49.3	49.8
5.2	44.5	45.1	45.6	46.2	46.8	47.4	47.9	48.5	49.1	49.7	50.2
5.4	44.9	45.5	46.0	46.6	47.2	47.8	48.3	48.9	49.5	50.1	50.6
5.6	45.3	45.9	46.4	47.0	47.6	48.2	48.7	49.3	49.9	50.5	51.0
5.8	45.7	46.3	46.8	47.4	48.0	48.6	49.1	49.7	50.3	50.9	51.4
6.0	46.1	46.7	47.2	47.8	48.4	49.0	49.5	50.1	50.7	51.3	51.8
6.2	46.5	47.1	47.6	48.2	48.8	49.4	49.9	50.5	51.1	51.7	52.3
6.4	46.9	47.5	48.0	48.6	49.2	49.8	50.4	50.9	51.5	52.1	52.7
6.6	47.3	47.9	48.5	49.0	49.6	50.2	50.8	51.3	51.9	52.5	53.1
6.8	47.7	48.3	48.9	49.4	50.0	50.6	51.2	51.7	52.3	52.9	53.5
7.0	48.1	48.7	49.3	49.8	50.4	51.0	51.6	52.1	52.7	53.3	53.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.80	9.81	9.82	9.83	9.84	9.85	9.86	9.87	9.88	9.89	9.90
7.0	48.1	48.7	49.3	49.8	50.4	51.0	51.6	52.1	52.7	53.3	53.8
7.2	48.5	49.1	49.7	50.2	50.8	51.4	52.0	52.5	53.1	53.7	54.2
7.4	48.9	49.5	50.1	50.6	51.2	51.8	52.4	52.9	53.5	54.1	54.6
7.6	49.3	49.9	50.4	51.0	51.6	52.2	52.7	53.3	53.9	54.5	55.0
7.8	49.7	50.3	50.8	51.4	52.0	52.6	53.1	53.7	54.3	54.9	55.4
8.0	50.1	50.7	51.2	51.8	52.4	53.0	53.5	54.1	54.7	55.3	55.8
8.2	50.5	51.1	51.6	52.2	52.8	53.4	53.9	54.5	55.1	55.6	56.2
8.4	50.9	51.5	52.0	52.6	53.2	53.8	54.3	54.9	55.5	56.0	56.6
8.6	51.3	51.9	52.4	53.0	53.6	54.2	54.7	55.3	55.9	56.4	57.0
8.8	51.7	52.3	52.8	53.4	54.0	54.5	55.1	55.7	56.3	56.8	57.4
9.0	52.1	52.6	53.2	53.8	54.4	54.9	55.5	56.1	56.6	57.2	57.8
9.2	52.5	53.0	53.6	54.2	54.8	55.3	55.9	56.5	57.0	57.6	58.2
9.4	52.9	53.4	54.0	54.6	55.1	55.7	56.3	56.8	57.4	58.0	58.5
9.6	53.3	53.8	54.4	55.0	55.5	56.1	56.7	57.2	57.8	58.4	58.9
9.8	53.6	54.2	54.8	55.4	55.9	56.5	57.1	57.6	58.2	58.7	59.3
10.0	54.0	54.6	55.2	55.7	56.3	56.9	57.4	58.0	58.6	59.1	59.7
10.2	54.4	55.0	55.6	56.1	56.7	57.3	57.8	58.4	58.9	59.5	60.0
10.4	54.8	55.4	55.9	56.5	57.1	57.6	58.2	58.8	59.3	59.9	60.4
10.6	55.2	55.8	56.3	56.9	57.5	58.0	58.6	59.1	59.7	60.2	60.8
10.8	55.6	56.1	56.7	57.3	57.8	58.4	59.0	59.5	60.1	60.6	61.2
11.0	56.0	56.5	57.1	57.7	58.2	58.8	59.3	59.9	60.4	61.0	61.5
11.2	56.3	56.9	57.5	58.0	58.6	59.2	59.7	60.3	60.8	61.4	61.9
11.4	56.7	57.3	57.9	58.4	59.0	59.5	60.1	60.6	61.2	61.7	62.3
11.6	57.1	57.7	58.2	58.8	59.3	59.9	60.5	61.0	61.5	62.1	62.6
11.8	57.5	58.0	58.6	59.2	59.7	60.3	60.8	61.4	61.9	62.5	63.0
12.0	57.9	58.4	59.0	59.5	60.1	60.6	61.2	61.7	62.3	62.8	63.4
12.2	58.2	58.8	59.4	59.9	60.5	61.0	61.6	62.1	62.6	63.2	63.7
12.4	58.6	59.2	59.7	60.3	60.8	61.4	61.9	62.5	63.0	63.5	64.1
12.6	59.0	59.5	60.1	60.6	61.2	61.7	62.3	62.8	63.4	63.9	64.4
12.8	59.4	59.9	60.5	61.0	61.6	62.1	62.6	63.2	63.7	64.2	64.8
13.0	59.7	60.3	60.8	61.4	61.9	62.5	63.0	63.5	64.1	64.6	65.1
13.2	60.1	60.6	61.2	61.7	62.3	62.8	63.4	63.9	64.4	64.9	65.5
13.4	60.5	61.0	61.6	62.1	62.6	63.2	63.7	64.2	64.8	65.3	65.8
13.6	60.8	61.4	61.9	62.5	63.0	63.5	64.1	64.6	65.1	65.6	66.2
13.8	61.2	61.7	62.3	62.8	63.4	63.9	64.4	64.9	65.5	66.0	66.5
14.0	61.6	62.1	62.6	63.2	63.7	64.2	64.8	65.3	65.8	66.3	66.8

TEMP DEG C	PH 9.80	9.81	9.82	9.83	9.84	9.85	9.86	9.87	9.88	9.89	9.90
14.0	61.6	62.1	62.6	63.2	63.7	64.2	64.8	65.3	65.8	66.3	66.8
14.2	61.9	62.5	63.0	63.5	64.1	64.6	65.1	65.6	66.2	66.7	67.2
14.4	62.3	62.8	63.3	63.9	64.4	64.9	65.5	66.0	66.5	67.0	67.5
14.6	62.6	63.2	63.7	64.2	64.8	65.3	65.8	66.3	66.8	67.3	67.8
14.8	63.0	63.5	64.0	64.6	65.1	65.6	66.1	66.7	67.2	67.7	68.2
15.0	63.3	63.9	64.4	64.9	65.4	66.0	66.5	67.0	67.5	68.0	68.5
15.2	63.7	64.2	64.7	65.3	65.8	66.3	66.8	67.3	67.8	68.3	68.8
15.4	64.0	64.6	65.1	65.6	66.1	66.6	67.2	67.7	68.2	68.7	69.1
15.6	64.4	64.9	65.4	65.9	66.5	67.0	67.5	68.0	68.5	69.0	69.5
15.8	64.7	65.2	65.8	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8
16.0	65.1	65.6	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1
16.2	65.4	65.9	66.4	67.0	67.5	68.0	68.5	69.0	69.4	69.9	70.4
16.4	65.7	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3	70.7
16.6	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.6	71.0
16.8	66.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.9	71.3
17.0	66.7	67.3	67.8	68.3	68.8	69.3	69.7	70.2	70.7	71.2	71.6
17.2	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.5	71.0	71.5	72.0
17.4	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.8	71.3	71.8	72.3
17.6	67.7	68.2	68.7	69.2	69.7	70.2	70.7	71.2	71.6	72.1	72.5
17.8	68.1	68.6	69.1	69.5	70.0	70.5	71.0	71.5	71.9	72.4	72.8
18.0	68.4	68.9	69.4	69.9	70.3	70.8	71.3	71.8	72.2	72.7	73.1
18.2	68.7	69.2	69.7	70.2	70.6	71.1	71.6	72.1	72.5	73.0	73.4
18.4	69.0	69.5	70.0	70.5	71.0	71.4	71.9	72.4	72.8	73.3	73.7
18.6	69.3	69.8	70.3	70.8	71.3	71.7	72.2	72.6	73.1	73.6	74.0
18.8	69.6	70.1	70.6	71.1	71.6	72.0	72.5	72.9	73.4	73.8	74.3
19.0	70.0	70.4	70.9	71.4	71.9	72.3	72.8	73.2	73.7	74.1	74.6
19.2	70.3	70.7	71.2	71.7	72.2	72.6	73.1	73.5	74.0	74.4	74.8
19.4	70.6	71.0	71.5	72.0	72.4	72.9	73.4	73.8	74.2	74.7	75.1
19.6	70.9	71.3	71.8	72.3	72.7	73.2	73.6	74.1	74.5	75.0	75.4
19.8	71.2	71.6	72.1	72.6	73.0	73.5	73.9	74.4	74.8	75.2	75.7
20.0	71.5	71.9	72.4	72.9	73.3	73.8	74.2	74.6	75.1	75.5	75.9
20.2	71.8	72.2	72.7	73.1	73.6	74.0	74.5	74.9	75.3	75.8	76.2
20.4	72.1	72.5	73.0	73.4	73.9	74.3	74.8	75.2	75.6	76.0	76.5
20.6	72.4	72.8	73.3	73.7	74.2	74.6	75.0	75.5	75.9	76.3	76.7
20.8	72.6	73.1	73.6	74.0	74.4	74.9	75.3	75.7	76.2	76.6	77.0
21.0	72.9	73.4	73.8	74.3	74.7	75.1	75.6	76.0	76.4	76.8	77.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.80	9.81	9.82	9.83	9.84	9.85	9.86	9.87	9.88	9.89	9.90
21.0	72.9	73.4	73.8	74.3	74.7	75.1	75.6	76.0	76.4	76.8	77.2
21.2	73.2	73.7	74.1	74.6	75.0	75.4	75.8	76.3	76.7	77.1	77.5
21.4	73.5	73.9	74.4	74.8	75.3	75.7	76.1	76.5	76.9	77.3	77.7
21.6	73.8	74.2	74.7	75.1	75.5	75.9	76.4	76.8	77.2	77.6	78.0
21.8	74.1	74.5	74.9	75.4	75.8	76.2	76.6	77.0	77.4	77.8	78.2
22.0	74.3	74.8	75.2	75.6	76.1	76.5	76.9	77.3	77.7	78.1	78.5
22.2	74.6	75.0	75.5	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7
22.4	74.9	75.3	75.7	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0
22.6	75.2	75.6	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2
22.8	75.4	75.8	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.4
23.0	75.7	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.3	79.7
23.2	75.9	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2	79.5	79.9
23.4	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.4	79.8	80.1
23.6	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.2	79.6	80.0	80.4
23.8	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6
24.0	77.0	77.4	77.8	78.2	78.6	79.0	79.3	79.7	80.1	80.4	80.8
24.2	77.2	77.6	78.0	78.4	78.8	79.2	79.6	79.9	80.3	80.7	81.0
24.4	77.5	77.9	78.3	78.7	79.0	79.4	79.8	80.2	80.5	80.9	81.2
24.6	77.7	78.1	78.5	78.9	79.3	79.7	80.0	80.4	80.7	81.1	81.5
24.8	78.0	78.4	78.7	79.1	79.5	79.9	80.2	80.6	81.0	81.3	81.7
25.0	78.2	78.6	79.0	79.4	79.7	80.1	80.5	80.8	81.2	81.5	81.9
25.2	78.4	78.8	79.2	79.6	80.0	80.3	80.7	81.0	81.4	81.7	82.1
25.4	78.7	79.1	79.4	79.8	80.2	80.6	80.9	81.3	81.6	82.0	82.3
25.6	78.9	79.3	79.7	80.0	80.4	80.8	81.1	81.5	81.8	82.2	82.5
25.8	79.2	79.5	79.9	80.3	80.6	81.0	81.3	81.7	82.0	82.4	82.7
26.0	79.4	79.8	80.1	80.5	80.9	81.2	81.6	81.9	82.2	82.6	82.9
26.2	79.6	80.0	80.4	80.7	81.1	81.4	81.8	82.1	82.4	82.8	83.1
26.4	79.8	80.2	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0	83.3
26.6	80.1	80.4	80.8	81.1	81.5	81.8	82.2	82.5	82.8	83.2	83.5
26.8	80.3	80.6	81.0	81.4	81.7	82.0	82.4	82.7	83.0	83.4	83.7
27.0	80.5	80.9	81.2	81.6	81.9	82.3	82.6	82.9	83.2	83.6	83.9
27.2	80.7	81.1	81.4	81.8	82.1	82.5	82.8	83.1	83.4	83.7	84.1
27.4	80.9	81.3	81.6	82.0	82.3	82.7	83.0	83.3	83.6	83.9	84.2
27.6	81.2	81.5	81.8	82.2	82.5	82.9	83.2	83.5	83.8	84.1	84.4
27.8	81.4	81.7	82.1	82.4	82.7	83.0	83.4	83.7	84.0	84.3	84.6
28.0	81.6	81.9	82.3	82.6	82.9	83.2	83.6	83.9	84.2	84.5	84.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.80	9.81	9.82	9.83	9.84	9.85	9.86	9.87	9.88	9.89	9.90
28.0	81.6	81.9	82.3	82.6	82.9	83.2	83.6	83.9	84.2	84.5	84.8
28.2	81.8	82.1	82.5	82.8	83.1	83.4	83.8	84.1	84.4	84.7	85.0
28.4	82.0	82.3	82.7	83.0	83.3	83.6	83.9	84.2	84.5	84.8	85.1
28.6	82.2	82.5	82.9	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3
28.8	82.4	82.7	83.0	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5
29.0	82.6	82.9	83.2	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7
29.2	82.8	83.1	83.4	83.7	84.1	84.4	84.7	85.0	85.3	85.5	85.8
29.4	83.0	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0
29.6	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2
29.8	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.0	86.3
30.0	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	85.9	86.2	86.5
30.2	83.7	84.1	84.4	84.7	85.0	85.2	85.5	85.8	86.1	86.4	86.6
30.4	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.3	86.5	86.8
30.6	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.1	86.4	86.7	87.0
30.8	84.3	84.6	84.9	85.2	85.5	85.8	86.0	86.3	86.6	86.8	87.1
31.0	84.5	84.8	85.1	85.4	85.6	85.9	86.2	86.5	86.7	87.0	87.3
31.2	84.6	84.9	85.2	85.5	85.8	86.1	86.4	86.6	86.9	87.2	87.4
31.4	84.8	85.1	85.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.6
31.6	85.0	85.3	85.6	85.9	86.1	86.4	86.7	86.9	87.2	87.5	87.7
31.8	85.2	85.5	85.7	86.0	86.3	86.6	86.8	87.1	87.3	87.6	87.8
32.0	85.3	85.6	85.9	86.2	86.5	86.7	87.0	87.2	87.5	87.7	88.0
32.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1
32.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0	88.3
32.6	85.8	86.1	86.4	86.7	86.9	87.2	87.4	87.7	87.9	88.2	88.4
32.8	86.0	86.3	86.5	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5
33.0	86.2	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.4	88.7
33.2	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8
33.4	86.5	86.7	87.0	87.3	87.5	87.8	88.0	88.3	88.5	88.7	88.9
33.6	86.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1
33.8	86.8	87.0	87.3	87.6	87.8	88.0	88.3	88.5	88.8	89.0	89.2
34.0	86.9	87.2	87.5	87.7	87.9	88.2	88.4	88.7	88.9	89.1	89.3
34.2	87.1	87.3	87.6	87.8	88.1	88.3	88.6	88.8	89.0	89.2	89.5
34.4	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9	89.1	89.4	89.6
34.6	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5	89.7
34.8	87.5	87.8	88.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8
35.0	87.7	87.9	88.2	88.4	88.6	88.9	89.1	89.3	89.5	89.7	90.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.80	9.81	9.82	9.83	9.84	9.85	9.86	9.87	9.88	9.89	9.90
35.0	87.7	87.9	88.2	88.4	88.6	88.9	89.1	89.3	89.5	89.7	90.0
35.2	87.8	88.1	88.3	88.5	88.8	89.0	89.2	89.4	89.7	89.9	90.1
35.4	88.0	88.2	88.4	88.7	88.9	89.1	89.3	89.6	89.8	90.0	90.2
35.6	88.1	88.3	88.6	88.8	89.0	89.2	89.5	89.7	89.9	90.1	90.3
35.8	88.2	88.5	88.7	88.9	89.2	89.4	89.6	89.8	90.0	90.2	90.4
36.0	88.4	88.6	88.8	89.1	89.3	89.5	89.7	89.9	90.1	90.3	90.5
36.2	88.5	88.7	89.0	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6
36.4	88.6	88.9	89.1	89.3	89.5	89.7	90.0	90.2	90.4	90.6	90.8
36.6	88.8	89.0	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7	90.9
36.8	88.9	89.1	89.3	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0
37.0	89.0	89.2	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1
37.2	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2
37.4	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3
37.6	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4
37.8	89.5	89.7	89.9	90.2	90.4	90.6	90.7	90.9	91.1	91.3	91.5
38.0	89.6	89.9	90.1	90.3	90.5	90.7	90.9	91.0	91.2	91.4	91.6
38.2	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.3	91.5	91.7
38.4	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.4	91.6	91.8
38.6	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7	91.9
38.8	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.6	91.8	92.0
39.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.7	91.9	92.1
39.2	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0	92.2
39.4	90.5	90.7	90.8	91.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3
39.6	90.6	90.8	91.0	91.1	91.3	91.5	91.7	91.9	92.0	92.2	92.4
39.8	90.7	90.9	91.1	91.2	91.4	91.6	91.8	92.0	92.1	92.3	92.4
40.0	90.8	91.0	91.2	91.3	91.5	91.7	91.9	92.0	92.2	92.4	92.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.90	9.91	9.92	9.93	9.94	9.95	9.96	9.97	9.98	9.99	10.00
.0	39.6	40.2	40.7	41.3	41.9	42.4	43.0	43.6	44.1	44.7	45.3
.2	40.0	40.6	41.2	41.7	42.3	42.8	43.4	44.0	44.5	45.1	45.7
.4	40.4	41.0	41.6	42.1	42.7	43.3	43.8	44.4	45.0	45.5	46.1
.6	40.9	41.4	42.0	42.5	43.1	43.7	44.2	44.8	45.4	45.9	46.5
.8	41.3	41.8	42.4	42.9	43.5	44.1	44.6	45.2	45.8	46.4	46.9
1.0	41.7	42.2	42.8	43.4	43.9	44.5	45.1	45.6	46.2	46.8	47.3
1.2	42.1	42.6	43.2	43.8	44.3	44.9	45.5	46.0	46.6	47.2	47.8
1.4	42.5	43.0	43.6	44.2	44.7	45.3	45.9	46.5	47.0	47.6	48.2
1.6	42.9	43.5	44.0	44.6	45.2	45.7	46.3	46.9	47.4	48.0	48.6
1.8	43.3	43.9	44.4	45.0	45.6	46.1	46.7	47.3	47.9	48.4	49.0
2.0	43.7	44.3	44.8	45.4	46.0	46.6	47.1	47.7	48.3	48.9	49.4
2.2	44.1	44.7	45.2	45.8	46.4	47.0	47.5	48.1	48.7	49.3	49.8
2.4	44.5	45.1	45.7	46.2	46.8	47.4	48.0	48.5	49.1	49.7	50.3
2.6	44.9	45.5	46.1	46.6	47.2	47.8	48.4	48.9	49.5	50.1	50.7
2.8	45.3	45.9	46.5	47.1	47.6	48.2	48.8	49.4	49.9	50.5	51.1
3.0	45.7	46.3	46.9	47.5	48.0	48.6	49.2	49.8	50.3	50.9	51.5
3.2	46.2	46.7	47.3	47.9	48.5	49.0	49.6	50.2	50.8	51.3	51.9
3.4	46.6	47.1	47.7	48.3	48.9	49.4	50.0	50.6	51.2	51.7	52.3
3.6	47.0	47.5	48.1	48.7	49.3	49.8	50.4	51.0	51.6	52.1	52.7
3.8	47.4	48.0	48.5	49.1	49.7	50.3	50.8	51.4	52.0	52.6	53.1
4.0	47.8	48.4	48.9	49.5	50.1	50.7	51.2	51.8	52.4	53.0	53.5
4.2	48.2	48.8	49.3	49.9	50.5	51.1	51.7	52.2	52.8	53.4	53.9
4.4	48.6	49.2	49.8	50.3	50.9	51.5	52.1	52.6	53.2	53.8	54.4
4.6	49.0	49.6	50.2	50.7	51.3	51.9	52.5	53.0	53.6	54.2	54.8
4.8	49.4	50.0	50.6	51.1	51.7	52.3	52.9	53.4	54.0	54.6	55.2
5.0	49.8	50.4	51.0	51.6	52.1	52.7	53.3	53.8	54.4	55.0	55.6
5.2	50.2	50.8	51.4	52.0	52.5	53.1	53.7	54.3	54.8	55.4	56.0
5.4	50.6	51.2	51.8	52.4	52.9	53.5	54.1	54.7	55.2	55.8	56.4
5.6	51.0	51.6	52.2	52.8	53.3	53.9	54.5	55.1	55.6	56.2	56.8
5.8	51.4	52.0	52.6	53.2	53.7	54.3	54.9	55.5	56.0	56.6	57.2
6.0	51.8	52.4	53.0	53.6	54.1	54.7	55.3	55.9	56.4	57.0	57.5
6.2	52.3	52.8	53.4	54.0	54.5	55.1	55.7	56.2	56.8	57.4	57.9
6.4	52.7	53.2	53.8	54.4	54.9	55.5	56.1	56.6	57.2	57.8	58.3
6.6	53.1	53.6	54.2	54.8	55.3	55.9	56.5	57.0	57.6	58.2	58.7
6.8	53.5	54.0	54.6	55.2	55.7	56.3	56.9	57.4	58.0	58.6	59.1
7.0	53.8	54.4	55.0	55.6	56.1	56.7	57.3	57.8	58.4	58.9	59.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.90	9.91	9.92	9.93	9.94	9.95	9.96	9.97	9.98	9.99	10.00
7.0	53.8	54.4	55.0	55.6	56.1	56.7	57.3	57.8	58.4	58.9	59.5
7.2	54.2	54.8	55.4	56.0	56.5	57.1	57.7	58.2	58.8	59.3	59.9
7.4	54.6	55.2	55.8	56.3	56.9	57.5	58.0	58.6	59.2	59.7	60.3
7.6	55.0	55.6	56.2	56.7	57.3	57.9	58.4	59.0	59.5	60.1	60.6
7.8	55.4	56.0	56.6	57.1	57.7	58.3	58.8	59.4	59.9	60.5	61.0
8.0	55.8	56.4	57.0	57.5	58.1	58.6	59.2	59.8	60.3	60.9	61.4
8.2	56.2	56.8	57.3	57.9	58.5	59.0	59.6	60.1	60.7	61.2	61.8
8.4	56.6	57.2	57.7	58.3	58.9	59.4	60.0	60.5	61.1	61.6	62.2
8.6	57.0	57.6	58.1	58.7	59.2	59.8	60.3	60.9	61.4	62.0	62.5
8.8	57.4	57.9	58.5	59.1	59.6	60.2	60.7	61.3	61.8	62.4	62.9
9.0	57.8	58.3	58.9	59.4	60.0	60.5	61.1	61.6	62.2	62.7	63.3
9.2	58.2	58.7	59.3	59.8	60.4	60.9	61.5	62.0	62.6	63.1	63.6
9.4	58.5	59.1	59.6	60.2	60.8	61.3	61.8	62.4	62.9	63.5	64.0
9.6	58.9	59.5	60.0	60.6	61.1	61.7	62.2	62.8	63.3	63.8	64.4
9.8	59.3	59.8	60.4	61.0	61.5	62.0	62.6	63.1	63.7	64.2	64.7
10.0	59.7	60.2	60.8	61.3	61.9	62.4	62.9	63.5	64.0	64.5	65.1
10.2	60.0	60.6	61.1	61.7	62.2	62.8	63.3	63.8	64.4	64.9	65.4
10.4	60.4	61.0	61.5	62.1	62.6	63.1	63.7	64.2	64.7	65.3	65.8
10.6	60.8	61.3	61.9	62.4	63.0	63.5	64.0	64.6	65.1	65.6	66.1
10.8	61.2	61.7	62.3	62.8	63.3	63.9	64.4	64.9	65.4	66.0	66.5
11.0	61.5	62.1	62.6	63.2	63.7	64.2	64.8	65.3	65.8	66.3	66.8
11.2	61.9	62.4	63.0	63.5	64.1	64.6	65.1	65.6	66.1	66.7	67.2
11.4	62.3	62.8	63.3	63.9	64.4	64.9	65.5	66.0	66.5	67.0	67.5
11.6	62.6	63.2	63.7	64.2	64.8	65.3	65.8	66.3	66.8	67.3	67.8
11.8	63.0	63.5	64.1	64.6	65.1	65.6	66.2	66.7	67.2	67.7	68.2
12.0	63.4	63.9	64.4	64.9	65.5	66.0	66.5	67.0	67.5	68.0	68.5
12.2	63.7	64.2	64.8	65.3	65.8	66.3	66.8	67.4	67.9	68.4	68.9
12.4	64.1	64.6	65.1	65.6	66.2	66.7	67.2	67.7	68.2	68.7	69.2
12.6	64.4	64.9	65.5	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5
12.8	64.8	65.3	65.8	66.3	66.8	67.4	67.9	68.4	68.9	69.3	69.8
13.0	65.1	65.6	66.2	66.7	67.2	67.7	68.2	68.7	69.2	69.7	70.2
13.2	65.5	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5
13.4	65.8	66.3	66.8	67.4	67.9	68.4	68.9	69.3	69.8	70.3	70.8
13.6	66.2	66.7	67.2	67.7	68.2	68.7	69.2	69.7	70.2	70.6	71.1
13.8	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	70.9	71.4
14.0	66.8	67.3	67.9	68.4	68.8	69.3	69.8	70.3	70.8	71.3	71.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.90	9.91	9.92	9.93	9.94	9.95	9.96	9.97	9.98	9.99	10.00
14.0	66.8	67.3	67.9	68.4	68.8	69.3	69.8	70.3	70.8	71.3	71.7
14.2	67.2	67.7	68.2	68.7	69.2	69.7	70.1	70.6	71.1	71.6	72.0
14.4	67.5	68.0	68.5	69.0	69.5	70.0	70.5	70.9	71.4	71.9	72.3
14.6	67.8	68.3	68.8	69.3	69.8	70.3	70.8	71.3	71.7	72.2	72.6
14.8	68.2	68.7	69.2	69.7	70.1	70.6	71.1	71.6	72.0	72.5	72.9
15.0	68.5	69.0	69.5	70.0	70.5	70.9	71.4	71.9	72.3	72.8	73.2
15.2	68.8	69.3	69.8	70.3	70.8	71.2	71.7	72.2	72.6	73.1	73.5
15.4	69.1	69.6	70.1	70.6	71.1	71.5	72.0	72.5	72.9	73.4	73.8
15.6	69.5	70.0	70.4	70.9	71.4	71.9	72.3	72.8	73.2	73.7	74.1
15.8	69.8	70.3	70.8	71.2	71.7	72.2	72.6	73.1	73.5	74.0	74.4
16.0	70.1	70.6	71.1	71.5	72.0	72.5	72.9	73.4	73.8	74.3	74.7
16.2	70.4	70.9	71.4	71.8	72.3	72.8	73.2	73.7	74.1	74.5	75.0
16.4	70.7	71.2	71.7	72.1	72.6	73.1	73.5	74.0	74.4	74.8	75.3
16.6	71.0	71.5	72.0	72.4	72.9	73.3	73.8	74.2	74.7	75.1	75.5
16.8	71.3	71.8	72.3	72.7	73.2	73.6	74.1	74.5	75.0	75.4	75.8
17.0	71.6	72.1	72.6	73.0	73.5	73.9	74.4	74.8	75.2	75.7	76.1
17.2	72.0	72.4	72.9	73.3	73.8	74.2	74.7	75.1	75.5	75.9	76.4
17.4	72.3	72.7	73.2	73.6	74.1	74.5	74.9	75.4	75.8	76.2	76.6
17.6	72.5	73.0	73.5	73.9	74.3	74.8	75.2	75.6	76.1	76.5	76.9
17.8	72.8	73.3	73.7	74.2	74.6	75.1	75.5	75.9	76.3	76.7	77.2
18.0	73.1	73.6	74.0	74.5	74.9	75.3	75.8	76.2	76.6	77.0	77.4
18.2	73.4	73.9	74.3	74.8	75.2	75.6	76.0	76.4	76.9	77.3	77.7
18.4	73.7	74.2	74.6	75.0	75.5	75.9	76.3	76.7	77.1	77.5	77.9
18.6	74.0	74.4	74.9	75.3	75.7	76.2	76.6	77.0	77.4	77.8	78.2
18.8	74.3	74.7	75.2	75.6	76.0	76.4	76.8	77.2	77.6	78.0	78.4
19.0	74.6	75.0	75.4	75.8	76.3	76.7	77.1	77.5	77.9	78.3	78.7
19.2	74.8	75.3	75.7	76.1	76.5	76.9	77.4	77.8	78.1	78.5	78.9
19.4	75.1	75.5	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2
19.6	75.4	75.8	76.2	76.6	77.1	77.5	77.9	78.3	78.6	79.0	79.4
19.8	75.7	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.3	79.6
20.0	75.9	76.3	76.8	77.2	77.6	78.0	78.4	78.7	79.1	79.5	79.9
20.2	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.4	79.7	80.1
20.4	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.2	79.6	80.0	80.3
20.6	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6
20.8	77.0	77.4	77.8	78.2	78.6	79.0	79.3	79.7	80.1	80.4	80.8
21.0	77.2	77.6	78.0	78.4	78.8	79.2	79.6	79.9	80.3	80.7	81.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.90	9.91	9.92	9.93	9.94	9.95	9.96	9.97	9.98	9.99	10.00
21.0	77.2	77.6	78.0	78.4	78.8	79.2	79.6	79.9	80.3	80.7	81.0
21.2	77.5	77.9	78.3	78.7	79.1	79.4	79.8	80.2	80.5	80.9	81.3
21.4	77.7	78.1	78.5	78.9	79.3	79.7	80.0	80.4	80.8	81.1	81.5
21.6	78.0	78.4	78.8	79.2	79.5	79.9	80.3	80.6	81.0	81.3	81.7
21.8	78.2	78.6	79.0	79.4	79.8	80.1	80.5	80.9	81.2	81.6	81.9
22.0	78.5	78.9	79.2	79.6	80.0	80.4	80.7	81.1	81.4	81.8	82.1
22.2	78.7	79.1	79.5	79.9	80.2	80.6	80.9	81.3	81.6	82.0	82.3
22.4	79.0	79.3	79.7	80.1	80.5	80.8	81.2	81.5	81.9	82.2	82.5
22.6	79.2	79.6	80.0	80.3	80.7	81.0	81.4	81.7	82.1	82.4	82.7
22.8	79.4	79.8	80.2	80.5	80.9	81.3	81.6	81.9	82.3	82.6	82.9
23.0	79.7	80.0	80.4	80.8	81.1	81.5	81.8	82.2	82.5	82.8	83.1
23.2	79.9	80.3	80.6	81.0	81.3	81.7	82.0	82.4	82.7	83.0	83.3
23.4	80.1	80.5	80.9	81.2	81.6	81.9	82.2	82.6	82.9	83.2	83.5
23.6	80.4	80.7	81.1	81.4	81.8	82.1	82.4	82.8	83.1	83.4	83.7
23.8	80.6	80.9	81.3	81.6	82.0	82.3	82.7	83.0	83.3	83.6	83.9
24.0	80.8	81.2	81.5	81.9	82.2	82.5	82.9	83.2	83.5	83.8	84.1
24.2	81.0	81.4	81.7	82.1	82.4	82.7	83.1	83.4	83.7	84.0	84.3
24.4	81.2	81.6	81.9	82.3	82.6	82.9	83.3	83.6	83.9	84.2	84.5
24.6	81.5	81.8	82.1	82.5	82.8	83.1	83.5	83.8	84.1	84.4	84.7
24.8	81.7	82.0	82.3	82.7	83.0	83.3	83.6	84.0	84.3	84.6	84.9
25.0	81.9	82.2	82.6	82.9	83.2	83.5	83.8	84.1	84.5	84.8	85.0
25.2	82.1	82.4	82.8	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2
25.4	82.3	82.6	83.0	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4
25.6	82.5	82.8	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6
25.8	82.7	83.0	83.3	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8
26.0	82.9	83.2	83.5	83.9	84.2	84.5	84.8	85.1	85.4	85.6	85.9
26.2	83.1	83.4	83.7	84.0	84.4	84.7	85.0	85.2	85.5	85.8	86.1
26.4	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.3
26.6	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4
26.8	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.0	86.3	86.6
27.0	83.9	84.2	84.5	84.8	85.1	85.4	85.7	85.9	86.2	86.5	86.7
27.2	84.1	84.4	84.7	85.0	85.3	85.5	85.8	86.1	86.4	86.6	86.9
27.4	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.3	86.5	86.8	87.1
27.6	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0	87.2
27.8	84.6	84.9	85.2	85.5	85.8	86.0	86.3	86.6	86.9	87.1	87.4
28.0	84.8	85.1	85.4	85.7	85.9	86.2	86.5	86.8	87.0	87.3	87.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.90	9.91	9.92	9.93	9.94	9.95	9.96	9.97	9.98	9.99	10.00
28.0	84.8	85.1	85.4	85.7	85.9	86.2	86.5	86.8	87.0	87.3	87.5
28.2	85.0	85.3	85.5	85.8	86.1	86.4	86.6	86.9	87.2	87.4	87.7
28.4	85.1	85.4	85.7	86.0	86.3	86.5	86.8	87.1	87.3	87.6	87.8
28.6	85.3	85.6	85.9	86.2	86.4	86.7	87.0	87.2	87.5	87.7	88.0
28.8	85.5	85.8	86.0	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1
29.0	85.7	85.9	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0	88.3
29.2	85.8	86.1	86.4	86.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4
29.4	86.0	86.3	86.5	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5
29.6	86.2	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.4	88.7
29.8	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8
30.0	86.5	86.7	87.0	87.3	87.5	87.8	88.0	88.3	88.5	88.7	89.0
30.2	86.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1
30.4	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2
30.6	87.0	87.2	87.5	87.7	88.0	88.2	88.4	88.7	88.9	89.1	89.3
30.8	87.1	87.4	87.6	87.9	88.1	88.3	88.6	88.8	89.0	89.3	89.5
31.0	87.3	87.5	87.8	88.0	88.2	88.5	88.7	88.9	89.2	89.4	89.6
31.2	87.4	87.7	87.9	88.1	88.4	88.6	88.9	89.1	89.3	89.5	89.7
31.4	87.6	87.8	88.0	88.3	88.5	88.8	89.0	89.2	89.4	89.6	89.9
31.6	87.7	87.9	88.2	88.4	88.7	88.9	89.1	89.3	89.6	89.8	90.0
31.8	87.8	88.1	88.3	88.6	88.8	89.0	89.2	89.5	89.7	89.9	90.1
32.0	88.0	88.2	88.5	88.7	88.9	89.2	89.4	89.6	89.8	90.0	90.2
32.2	88.1	88.4	88.6	88.8	89.1	89.3	89.5	89.7	89.9	90.1	90.3
32.4	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8	90.0	90.3	90.5
32.6	88.4	88.6	88.9	89.1	89.3	89.5	89.8	90.0	90.2	90.4	90.6
32.8	88.5	88.8	89.0	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7
33.0	88.7	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8
33.2	88.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9
33.4	88.9	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0
33.6	89.1	89.3	89.5	89.7	89.9	90.2	90.4	90.6	90.7	90.9	91.1
33.8	89.2	89.4	89.6	89.9	90.1	90.3	90.5	90.7	90.9	91.0	91.2
34.0	89.3	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.3
34.2	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.4
34.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.5
34.6	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.6
34.8	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.8
35.0	90.0	90.2	90.4	90.6	90.8	90.9	91.1	91.3	91.5	91.7	91.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 9.90	9.91	9.92	9.93	9.94	9.95	9.96	9.97	9.98	9.99	10.00
35.0	90.0	90.2	90.4	90.6	90.8	90.9	91.1	91.3	91.5	91.7	91.9
35.2	90.1	90.3	90.5	90.7	90.9	91.1	91.2	91.4	91.6	91.8	91.9
35.4	90.2	90.4	90.6	90.8	91.0	91.2	91.3	91.5	91.7	91.9	92.0
35.6	90.3	90.5	90.7	90.9	91.1	91.3	91.4	91.6	91.8	92.0	92.1
35.8	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.7	91.9	92.1	92.2
36.0	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3
36.2	90.6	90.8	91.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4
36.4	90.8	90.9	91.1	91.3	91.5	91.7	91.9	92.0	92.2	92.4	92.5
36.6	90.9	91.1	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4	92.6
36.8	91.0	91.2	91.3	91.5	91.7	91.9	92.0	92.2	92.4	92.5	92.7
37.0	91.1	91.3	91.4	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8
37.2	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.6	92.7	92.9
37.4	91.3	91.5	91.6	91.8	92.0	92.2	92.3	92.5	92.6	92.8	93.0
37.6	91.4	91.6	91.7	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.0
37.8	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.7	92.8	93.0	93.1
38.0	91.6	91.8	91.9	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2
38.2	91.7	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3
38.4	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4
38.6	91.9	92.1	92.2	92.4	92.5	92.7	92.9	93.0	93.2	93.3	93.4
38.8	92.0	92.2	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5
39.0	92.1	92.2	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6
39.2	92.2	92.3	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.5	93.7
39.4	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.8
39.6	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8
39.8	92.4	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9
40.0	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.00	10.01	10.02	10.03	10.04	10.05	10.06	10.07	10.08	10.09	10.10
.0	45.3	45.8	46.4	47.0	47.6	48.1	48.7	49.3	49.9	50.4	51.0
.2	45.7	46.3	46.8	47.4	48.0	48.5	49.1	49.7	50.3	50.8	51.4
.4	46.1	46.7	47.2	47.8	48.4	49.0	49.5	50.1	50.7	51.3	51.8
.6	46.5	47.1	47.7	48.2	48.8	49.4	50.0	50.5	51.1	51.7	52.3
.8	46.9	47.5	48.1	48.7	49.2	49.8	50.4	51.0	51.5	52.1	52.7
1.0	47.3	47.9	48.5	49.1	49.6	50.2	50.8	51.4	51.9	52.5	53.1
1.2	47.8	48.3	48.9	49.5	50.1	50.6	51.2	51.8	52.4	52.9	53.5
1.4	48.2	48.8	49.3	49.9	50.5	51.1	51.6	52.2	52.8	53.4	53.9
1.6	48.6	49.2	49.7	50.3	50.9	51.5	52.0	52.6	53.2	53.8	54.3
1.8	49.0	49.6	50.2	50.7	51.3	51.9	52.5	53.0	53.6	54.2	54.8
2.0	49.4	50.0	50.6	51.2	51.7	52.3	52.9	53.5	54.0	54.6	55.2
2.2	49.8	50.4	51.0	51.6	52.1	52.7	53.3	53.9	54.4	55.0	55.6
2.4	50.3	50.8	51.4	52.0	52.6	53.1	53.7	54.3	54.8	55.4	56.0
2.6	50.7	51.2	51.8	52.4	53.0	53.5	54.1	54.7	55.3	55.8	56.4
2.8	51.1	51.7	52.2	52.8	53.4	54.0	54.5	55.1	55.7	56.2	56.8
3.0	51.5	52.1	52.6	53.2	53.8	54.4	54.9	55.5	56.1	56.6	57.2
3.2	51.9	52.5	53.1	53.6	54.2	54.8	55.3	55.9	56.5	57.0	57.6
3.4	52.3	52.9	53.5	54.0	54.6	55.2	55.7	56.3	56.9	57.4	58.0
3.6	52.7	53.3	53.9	54.4	55.0	55.6	56.1	56.7	57.3	57.8	58.4
3.8	53.1	53.7	54.3	54.8	55.4	56.0	56.6	57.1	57.7	58.2	58.8
4.0	53.5	54.1	54.7	55.3	55.8	56.4	57.0	57.5	58.1	58.6	59.2
4.2	53.9	54.5	55.1	55.7	56.2	56.8	57.4	57.9	58.5	59.0	59.6
4.4	54.4	54.9	55.5	56.1	56.6	57.2	57.8	58.3	58.9	59.4	60.0
4.6	54.8	55.3	55.9	56.5	57.0	57.6	58.1	58.7	59.3	59.8	60.4
4.8	55.2	55.7	56.3	56.9	57.4	58.0	58.5	59.1	59.7	60.2	60.8
5.0	55.6	56.1	56.7	57.3	57.8	58.4	58.9	59.5	60.0	60.6	61.1
5.2	56.0	56.5	57.1	57.7	58.2	58.8	59.3	59.9	60.4	61.0	61.5
5.4	56.4	56.9	57.5	58.0	58.6	59.2	59.7	60.3	60.8	61.4	61.9
5.6	56.8	57.3	57.9	58.4	59.0	59.6	60.1	60.7	61.2	61.8	62.3
5.8	57.2	57.7	58.3	58.8	59.4	59.9	60.5	61.0	61.6	62.1	62.7
6.0	57.5	58.1	58.7	59.2	59.8	60.3	60.9	61.4	62.0	62.5	63.1
6.2	57.9	58.5	59.1	59.6	60.2	60.7	61.3	61.8	62.4	62.9	63.4
6.4	58.3	58.9	59.4	60.0	60.6	61.1	61.6	62.2	62.7	63.3	63.8
6.6	58.7	59.3	59.8	60.4	60.9	61.5	62.0	62.6	63.1	63.6	64.2
6.8	59.1	59.7	60.2	60.8	61.3	61.9	62.4	62.9	63.5	64.0	64.5
7.0	59.5	60.1	60.6	61.1	61.7	62.2	62.8	63.3	63.8	64.4	64.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.00	10.01	10.02	10.03	10.04	10.05	10.06	10.07	10.08	10.09	10.10
7.0	59.5	60.1	60.6	61.1	61.7	62.2	62.8	63.3	63.8	64.4	64.9
7.2	59.9	60.4	61.0	61.5	62.1	62.6	63.2	63.7	64.2	64.7	65.3
7.4	60.3	60.8	61.4	61.9	62.4	63.0	63.5	64.1	64.6	65.1	65.6
7.6	60.6	61.2	61.7	62.3	62.8	63.4	63.9	64.4	64.9	65.5	66.0
7.8	61.0	61.6	62.1	62.7	63.2	63.7	64.3	64.8	65.3	65.8	66.3
8.0	61.4	61.9	62.5	63.0	63.6	64.1	64.6	65.1	65.7	66.2	66.7
8.2	61.8	62.3	62.9	63.4	63.9	64.5	65.0	65.5	66.0	66.5	67.0
8.4	62.2	62.7	63.2	63.8	64.3	64.8	65.3	65.9	66.4	66.9	67.4
8.6	62.5	63.1	63.6	64.1	64.7	65.2	65.7	66.2	66.7	67.2	67.7
8.8	62.9	63.4	64.0	64.5	65.0	65.5	66.1	66.6	67.1	67.6	68.1
9.0	63.3	63.8	64.3	64.9	65.4	65.9	66.4	66.9	67.4	67.9	68.4
9.2	63.6	64.2	64.7	65.2	65.7	66.2	66.8	67.3	67.8	68.3	68.8
9.4	64.0	64.5	65.0	65.6	66.1	66.6	67.1	67.6	68.1	68.6	69.1
9.6	64.4	64.9	65.4	65.9	66.4	66.9	67.5	68.0	68.5	69.0	69.4
9.8	64.7	65.2	65.8	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8
10.0	65.1	65.6	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1
10.2	65.4	65.9	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.4
10.4	65.8	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3	70.8
10.6	66.1	66.6	67.2	67.7	68.2	68.7	69.2	69.6	70.1	70.6	71.1
10.8	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	70.9	71.4
11.0	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3	70.8	71.2	71.7
11.2	67.2	67.7	68.2	68.7	69.2	69.7	70.1	70.6	71.1	71.6	72.0
11.4	67.5	68.0	68.5	69.0	69.5	70.0	70.5	70.9	71.4	71.9	72.3
11.6	67.8	68.3	68.8	69.3	69.8	70.3	70.8	71.3	71.7	72.2	72.7
11.8	68.2	68.7	69.2	69.7	70.1	70.6	71.1	71.6	72.0	72.5	73.0
12.0	68.5	69.0	69.5	70.0	70.5	70.9	71.4	71.9	72.4	72.8	73.3
12.2	68.9	69.3	69.8	70.3	70.8	71.3	71.7	72.2	72.7	73.1	73.6
12.4	69.2	69.7	70.2	70.6	71.1	71.6	72.0	72.5	73.0	73.4	73.9
12.6	69.5	70.0	70.5	71.0	71.4	71.9	72.4	72.8	73.3	73.7	74.2
12.8	69.8	70.3	70.8	71.3	71.7	72.2	72.7	73.1	73.6	74.0	74.5
13.0	70.2	70.6	71.1	71.6	72.0	72.5	73.0	73.4	73.9	74.3	74.7
13.2	70.5	71.0	71.4	71.9	72.4	72.8	73.3	73.7	74.2	74.6	75.0
13.4	70.8	71.3	71.7	72.2	72.7	73.1	73.6	74.0	74.5	74.9	75.3
13.6	71.1	71.6	72.0	72.5	73.0	73.4	73.9	74.3	74.7	75.2	75.6
13.8	71.4	71.9	72.4	72.8	73.3	73.7	74.2	74.6	75.0	75.5	75.9
14.0	71.7	72.2	72.7	73.1	73.6	74.0	74.4	74.9	75.3	75.7	76.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.00	10.01	10.02	10.03	10.04	10.05	10.06	10.07	10.08	10.09	10.10
14.0	71.7	72.2	72.7	73.1	73.6	74.0	74.4	74.9	75.3	75.7	76.2
14.2	72.0	72.5	73.0	73.4	73.9	74.3	74.7	75.2	75.6	76.0	76.4
14.4	72.3	72.8	73.3	73.7	74.1	74.6	75.0	75.5	75.9	76.3	76.7
14.6	72.6	73.1	73.6	74.0	74.4	74.9	75.3	75.7	76.2	76.6	77.0
14.8	72.9	73.4	73.8	74.3	74.7	75.2	75.6	76.0	76.4	76.8	77.2
15.0	73.2	73.7	74.1	74.6	75.0	75.4	75.9	76.3	76.7	77.1	77.5
15.2	73.5	74.0	74.4	74.9	75.3	75.7	76.1	76.6	77.0	77.4	77.8
15.4	73.8	74.3	74.7	75.1	75.6	76.0	76.4	76.8	77.2	77.6	78.0
15.6	74.1	74.6	75.0	75.4	75.9	76.3	76.7	77.1	77.5	77.9	78.3
15.8	74.4	74.8	75.3	75.7	76.1	76.5	77.0	77.4	77.8	78.2	78.5
16.0	74.7	75.1	75.6	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8
16.2	75.0	75.4	75.8	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.0
16.4	75.3	75.7	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.3
16.6	75.5	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2	79.5
16.8	75.8	76.2	76.6	77.1	77.5	77.9	78.3	78.6	79.0	79.4	79.8
17.0	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.3	79.7	80.0
17.2	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.1	79.5	79.9	80.3
17.4	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.4	79.8	80.1	80.5
17.6	76.9	77.3	77.7	78.1	78.5	78.9	79.3	79.6	80.0	80.4	80.7
17.8	77.2	77.6	78.0	78.3	78.7	79.1	79.5	79.9	80.2	80.6	81.0
18.0	77.4	77.8	78.2	78.6	79.0	79.4	79.7	80.1	80.5	80.8	81.2
18.2	77.7	78.1	78.5	78.8	79.2	79.6	80.0	80.3	80.7	81.1	81.4
18.4	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6	80.9	81.3	81.6
18.6	78.2	78.6	79.0	79.3	79.7	80.1	80.4	80.8	81.2	81.5	81.9
18.8	78.4	78.8	79.2	79.6	79.9	80.3	80.7	81.0	81.4	81.7	82.1
19.0	78.7	79.1	79.4	79.8	80.2	80.5	80.9	81.3	81.6	81.9	82.3
19.2	78.9	79.3	79.7	80.0	80.4	80.8	81.1	81.5	81.8	82.2	82.5
19.4	79.2	79.5	79.9	80.3	80.6	81.0	81.4	81.7	82.0	82.4	82.7
19.6	79.4	79.8	80.2	80.5	80.9	81.2	81.6	81.9	82.3	82.6	82.9
19.8	79.6	80.0	80.4	80.7	81.1	81.4	81.8	82.1	82.5	82.8	83.1
20.0	79.9	80.3	80.6	81.0	81.3	81.7	82.0	82.3	82.7	83.0	83.3
20.2	80.1	80.5	80.8	81.2	81.5	81.9	82.2	82.6	82.9	83.2	83.5
20.4	80.3	80.7	81.1	81.4	81.8	82.1	82.4	82.8	83.1	83.4	83.7
20.6	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9
20.8	80.8	81.2	81.5	81.9	82.2	82.5	82.9	83.2	83.5	83.8	84.1
21.0	81.0	81.4	81.7	82.1	82.4	82.7	83.1	83.4	83.7	84.0	84.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.00	10.01	10.02	10.03	10.04	10.05	10.06	10.07	10.08	10.09	10.10
21.0	81.0	81.4	81.7	82.1	82.4	82.7	83.1	83.4	83.7	84.0	84.3
21.2	81.3	81.6	81.9	82.3	82.6	82.9	83.3	83.6	83.9	84.2	84.5
21.4	81.5	81.8	82.2	82.5	82.8	83.1	83.5	83.8	84.1	84.4	84.7
21.6	81.7	82.0	82.4	82.7	83.0	83.3	83.7	84.0	84.3	84.6	84.9
21.8	81.9	82.2	82.6	82.9	83.2	83.5	83.9	84.2	84.5	84.8	85.1
22.0	82.1	82.5	82.8	83.1	83.4	83.7	84.1	84.4	84.7	85.0	85.3
22.2	82.3	82.7	83.0	83.3	83.6	83.9	84.2	84.6	84.8	85.1	85.4
22.4	82.5	82.9	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6
22.6	82.7	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8
22.8	82.9	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0
23.0	83.1	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.1
23.2	83.3	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.7	86.0	86.3
23.4	83.5	83.9	84.2	84.5	84.8	85.1	85.4	85.6	85.9	86.2	86.5
23.6	83.7	84.1	84.4	84.7	85.0	85.2	85.5	85.8	86.1	86.4	86.6
23.8	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.3	86.5	86.8
24.0	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0
24.2	84.3	84.6	84.9	85.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1
24.4	84.5	84.8	85.1	85.4	85.7	85.9	86.2	86.5	86.8	87.0	87.3
24.6	84.7	85.0	85.3	85.6	85.8	86.1	86.4	86.7	86.9	87.2	87.4
24.8	84.9	85.2	85.4	85.7	86.0	86.3	86.6	86.8	87.1	87.3	87.6
25.0	85.0	85.3	85.6	85.9	86.2	86.5	86.7	87.0	87.2	87.5	87.7
25.2	85.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1	87.4	87.7	87.9
25.4	85.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.6	87.8	88.0
25.6	85.6	85.9	86.1	86.4	86.7	86.9	87.2	87.5	87.7	88.0	88.2
25.8	85.8	86.0	86.3	86.6	86.8	87.1	87.4	87.6	87.9	88.1	88.3
26.0	85.9	86.2	86.5	86.7	87.0	87.3	87.5	87.8	88.0	88.2	88.5
26.2	86.1	86.4	86.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6
26.4	86.3	86.5	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5	88.8
26.6	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.4	88.7	88.9
26.8	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.0
27.0	86.7	87.0	87.3	87.5	87.8	88.0	88.3	88.5	88.7	89.0	89.2
27.2	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1	89.3
27.4	87.1	87.3	87.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2	89.4
27.6	87.2	87.5	87.7	88.0	88.2	88.4	88.7	88.9	89.1	89.4	89.6
27.8	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.0	89.3	89.5	89.7
28.0	87.5	87.8	88.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.00	10.01	10.02	10.03	10.04	10.05	10.06	10.07	10.08	10.09	10.10
28.0	87.5	87.8	88.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8
28.2	87.7	87.9	88.2	88.4	88.6	88.9	89.1	89.3	89.5	89.7	90.0
28.4	87.8	88.1	88.3	88.5	88.8	89.0	89.2	89.4	89.7	89.9	90.1
28.6	88.0	88.2	88.5	88.7	88.9	89.1	89.4	89.6	89.8	90.0	90.2
28.8	88.1	88.4	88.6	88.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3
29.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8	90.0	90.2	90.4
29.2	88.4	88.6	88.9	89.1	89.3	89.5	89.7	90.0	90.2	90.4	90.6
29.4	88.5	88.8	89.0	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7
29.6	88.7	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8
29.8	88.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9
30.0	89.0	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0
30.2	89.1	89.3	89.5	89.7	90.0	90.2	90.4	90.6	90.8	90.9	91.1
30.4	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.2
30.6	89.3	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.3
30.8	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5
31.0	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.6
31.2	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.7
31.4	89.9	90.1	90.3	90.5	90.7	90.9	91.0	91.2	91.4	91.6	91.8
31.6	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.3	91.5	91.7	91.9
31.8	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.4	91.6	91.8	92.0
32.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.7	91.9	92.1
32.2	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0	92.2
32.4	90.5	90.7	90.8	91.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3
32.6	90.6	90.8	91.0	91.1	91.3	91.5	91.7	91.9	92.0	92.2	92.4
32.8	90.7	90.9	91.1	91.3	91.4	91.6	91.8	92.0	92.1	92.3	92.5
33.0	90.8	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.5
33.2	90.9	91.1	91.3	91.5	91.6	91.8	92.0	92.2	92.3	92.5	92.6
33.4	91.0	91.2	91.4	91.6	91.7	91.9	92.1	92.3	92.4	92.6	92.7
33.6	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.7	92.8
33.8	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4	92.6	92.8	92.9
34.0	91.3	91.5	91.7	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0
34.2	91.4	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1
34.4	91.5	91.7	91.9	92.1	92.2	92.4	92.6	92.7	92.9	93.0	93.2
34.6	91.6	91.8	92.0	92.2	92.3	92.5	92.6	92.8	93.0	93.1	93.3
34.8	91.8	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3
35.0	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.00	10.01	10.02	10.03	10.04	10.05	10.06	10.07	10.08	10.09	10.10
35.0	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4
35.2	91.9	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.4	93.5
35.4	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6
35.6	92.1	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.7
35.8	92.2	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7
36.0	92.3	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.5	93.7	93.8
36.2	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.8	93.9
36.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0
36.6	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0
36.8	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1
37.0	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8	93.9	94.1	94.2
37.2	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3
37.4	93.0	93.1	93.3	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3
37.6	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3	94.4
37.8	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.3	94.5
38.0	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5
38.2	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.4	94.5	94.6
38.4	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.7
38.6	93.4	93.6	93.7	93.9	94.0	94.1	94.2	94.4	94.5	94.6	94.7
38.8	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8
39.0	93.6	93.7	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.7	94.9
39.2	93.7	93.8	93.9	94.1	94.2	94.3	94.5	94.6	94.7	94.8	94.9
39.4	93.8	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.8	94.9	95.0
39.6	93.8	94.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0
39.8	93.9	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1
40.0	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.0	95.2

TEMP DEG C	PH 10.10	10.11	10.12	10.13	10.14	10.15	10.16	10.17	10.18	10.19	10.20
.0	51.0	51.6	52.2	52.7	53.3	53.9	54.4	55.0	55.6	56.2	56.7
.2	51.4	52.0	52.6	53.1	53.7	54.3	54.9	55.4	56.0	56.6	57.1
.4	51.8	52.4	53.0	53.6	54.1	54.7	55.3	55.8	56.4	57.0	57.5
.6	52.3	52.8	53.4	54.0	54.6	55.1	55.7	56.3	56.8	57.4	58.0
.8	52.7	53.3	53.8	54.4	55.0	55.5	56.1	56.7	57.2	57.8	58.4
1.0	53.1	53.7	54.2	54.8	55.4	56.0	56.5	57.1	57.6	58.2	58.8
1.2	53.5	54.1	54.7	55.2	55.8	56.4	56.9	57.5	58.1	58.6	59.2
1.4	53.9	54.5	55.1	55.6	56.2	56.8	57.3	57.9	58.5	59.0	59.6
1.6	54.3	54.9	55.5	56.0	56.6	57.2	57.7	58.3	58.9	59.4	60.0
1.8	54.8	55.3	55.9	56.5	57.0	57.6	58.1	58.7	59.3	59.8	60.4
2.0	55.2	55.7	56.3	56.9	57.4	58.0	58.6	59.1	59.7	60.2	60.8
2.2	55.6	56.1	56.7	57.3	57.8	58.4	59.0	59.5	60.1	60.6	61.2
2.4	56.0	56.5	57.1	57.7	58.2	58.8	59.4	59.9	60.5	61.0	61.6
2.6	56.4	57.0	57.5	58.1	58.6	59.2	59.8	60.3	60.9	61.4	61.9
2.8	56.8	57.4	57.9	58.5	59.0	59.6	60.1	60.7	61.2	61.8	62.3
3.0	57.2	57.8	58.3	58.9	59.4	60.0	60.5	61.1	61.6	62.2	62.7
3.2	57.6	58.2	58.7	59.3	59.8	60.4	60.9	61.5	62.0	62.6	63.1
3.4	58.0	58.6	59.1	59.7	60.2	60.8	61.3	61.9	62.4	63.0	63.5
3.6	58.4	59.0	59.5	60.1	60.6	61.2	61.7	62.3	62.8	63.3	63.9
3.8	58.8	59.4	59.9	60.5	61.0	61.6	62.1	62.6	63.2	63.7	64.2
4.0	59.2	59.8	60.3	60.9	61.4	61.9	62.5	63.0	63.6	64.1	64.6
4.2	59.6	60.1	60.7	61.2	61.8	62.3	62.9	63.4	63.9	64.5	65.0
4.4	60.0	60.5	61.1	61.6	62.2	62.7	63.2	63.8	64.3	64.8	65.4
4.6	60.4	60.9	61.5	62.0	62.6	63.1	63.6	64.2	64.7	65.2	65.7
4.8	60.8	61.3	61.9	62.4	62.9	63.5	64.0	64.5	65.1	65.6	66.1
5.0	61.1	61.7	62.2	62.8	63.3	63.8	64.4	64.9	65.4	65.9	66.5
5.2	61.5	62.1	62.6	63.2	63.7	64.2	64.7	65.3	65.8	66.3	66.8
5.4	61.9	62.5	63.0	63.5	64.1	64.6	65.1	65.6	66.2	66.7	67.2
5.6	62.3	62.8	63.4	63.9	64.4	65.0	65.5	66.0	66.5	67.0	67.5
5.8	62.7	63.2	63.7	64.3	64.8	65.3	65.8	66.4	66.9	67.4	67.9
6.0	63.1	63.6	64.1	64.6	65.2	65.7	66.2	66.7	67.2	67.7	68.2
6.2	63.4	64.0	64.5	65.0	65.5	66.1	66.6	67.1	67.6	68.1	68.6
6.4	63.8	64.3	64.9	65.4	65.9	66.4	66.9	67.4	67.9	68.4	68.9
6.6	64.2	64.7	65.2	65.7	66.3	66.8	67.3	67.8	68.3	68.8	69.3
6.8	64.5	65.1	65.6	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6
7.0	64.9	65.4	65.9	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0

TEMP DEG C	PH 10.10	10.11	10.12	10.13	10.14	10.15	10.16	10.17	10.18	10.19	10.20
7.0	64.9	65.4	65.9	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0
7.2	65.3	65.8	66.3	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3
7.4	65.6	66.1	66.7	67.2	67.7	68.2	68.7	69.2	69.7	70.1	70.6
7.6	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0
7.8	66.3	66.9	67.4	67.9	68.4	68.9	69.4	69.8	70.3	70.8	71.3
8.0	66.7	67.2	67.7	68.2	68.7	69.2	69.7	70.2	70.7	71.1	71.6
8.2	67.0	67.6	68.1	68.6	69.1	69.5	70.0	70.5	71.0	71.5	71.9
8.4	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.8	71.3	71.8	72.2
8.6	67.7	68.2	68.7	69.2	69.7	70.2	70.7	71.2	71.6	72.1	72.6
8.8	68.1	68.6	69.1	69.6	70.1	70.5	71.0	71.5	72.0	72.4	72.9
9.0	68.4	68.9	69.4	69.9	70.4	70.9	71.3	71.8	72.3	72.7	73.2
9.2	68.8	69.3	69.8	70.2	70.7	71.2	71.7	72.1	72.6	73.0	73.5
9.4	69.1	69.6	70.1	70.6	71.0	71.5	72.0	72.4	72.9	73.4	73.8
9.6	69.4	69.9	70.4	70.9	71.4	71.8	72.3	72.8	73.2	73.7	74.1
9.8	69.8	70.3	70.7	71.2	71.7	72.1	72.6	73.1	73.5	74.0	74.4
10.0	70.1	70.6	71.1	71.5	72.0	72.5	72.9	73.4	73.8	74.3	74.7
10.2	70.4	70.9	71.4	71.9	72.3	72.8	73.2	73.7	74.1	74.6	75.0
10.4	70.8	71.2	71.7	72.2	72.6	73.1	73.5	74.0	74.4	74.9	75.3
10.6	71.1	71.6	72.0	72.5	72.9	73.4	73.8	74.3	74.7	75.1	75.6
10.8	71.4	71.9	72.3	72.8	73.2	73.7	74.1	74.6	75.0	75.4	75.9
11.0	71.7	72.2	72.6	73.1	73.5	74.0	74.4	74.9	75.3	75.7	76.1
11.2	72.0	72.5	72.9	73.4	73.8	74.3	74.7	75.2	75.6	76.0	76.4
11.4	72.3	72.8	73.3	73.7	74.1	74.6	75.0	75.4	75.9	76.3	76.7
11.6	72.7	73.1	73.6	74.0	74.4	74.9	75.3	75.7	76.2	76.6	77.0
11.8	73.0	73.4	73.9	74.3	74.7	75.2	75.6	76.0	76.4	76.8	77.3
12.0	73.3	73.7	74.2	74.6	75.0	75.5	75.9	76.3	76.7	77.1	77.5
12.2	73.6	74.0	74.4	74.9	75.3	75.7	76.2	76.6	77.0	77.4	77.8
12.4	73.9	74.3	74.7	75.2	75.6	76.0	76.4	76.9	77.3	77.7	78.1
12.6	74.2	74.6	75.0	75.5	75.9	76.3	76.7	77.1	77.5	77.9	78.3
12.8	74.5	74.9	75.3	75.7	76.2	76.6	77.0	77.4	77.8	78.2	78.6
13.0	74.7	75.2	75.6	76.0	76.4	76.9	77.3	77.7	78.1	78.5	78.8
13.2	75.0	75.5	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1
13.4	75.3	75.7	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.3
13.6	75.6	76.0	76.4	76.9	77.3	77.7	78.1	78.5	78.8	79.2	79.6
13.8	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.8
14.0	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.3	79.7	80.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.10	10.11	10.12	10.13	10.14	10.15	10.16	10.17	10.18	10.19	10.20
14.0	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.3	79.7	80.1
14.2	76.4	76.8	77.3	77.7	78.1	78.4	78.8	79.2	79.6	80.0	80.3
14.4	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6
14.6	77.0	77.4	77.8	78.2	78.6	79.0	79.3	79.7	80.1	80.4	80.8
14.8	77.2	77.6	78.0	78.4	78.8	79.2	79.6	80.0	80.3	80.7	81.0
15.0	77.5	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6	80.9	81.3
15.2	77.8	78.2	78.6	78.9	79.3	79.7	80.1	80.4	80.8	81.1	81.5
15.4	78.0	78.4	78.8	79.2	79.6	79.9	80.3	80.7	81.0	81.4	81.7
15.6	78.3	78.7	79.1	79.4	79.8	80.2	80.5	80.9	81.3	81.6	81.9
15.8	78.5	78.9	79.3	79.7	80.1	80.4	80.8	81.1	81.5	81.8	82.2
16.0	78.8	79.2	79.6	79.9	80.3	80.7	81.0	81.4	81.7	82.1	82.4
16.2	79.0	79.4	79.8	80.2	80.5	80.9	81.2	81.6	81.9	82.3	82.6
16.4	79.3	79.7	80.0	80.4	80.8	81.1	81.5	81.8	82.2	82.5	82.8
16.6	79.5	79.9	80.3	80.6	81.0	81.3	81.7	82.0	82.4	82.7	83.0
16.8	79.8	80.2	80.5	80.9	81.2	81.6	81.9	82.3	82.6	82.9	83.2
17.0	80.0	80.4	80.7	81.1	81.5	81.8	82.1	82.5	82.8	83.1	83.5
17.2	80.3	80.6	81.0	81.3	81.7	82.0	82.4	82.7	83.0	83.3	83.7
17.4	80.5	80.9	81.2	81.6	81.9	82.2	82.6	82.9	83.2	83.5	83.9
17.6	80.7	81 1	81.4	81.8	82.1	82.5	82.8	83.1	83.4	83.7	84.1
17.8	81.0	81.3	81.7	82.0	82.3	82.7	83.0	83.3	83.6	83.9	84.3
18.0	81.2	81.5	81.9	82.2	82.6	82.9	83.2	83.5	83.8	84.1	84.5
18.2	81.4	81.8	82.1	82.4	82.8	83.1	83.4	83.7	84.0	84.3	84.6
18.4	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9	84.2	84.5	84.8
18.6	81.9	82.2	82.5	82.9	83.2	83.5	83.8	84.1	84.4	84.7	85.0
18.8	82.1	82.4	82.7	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2
19.0	82.3	82.6	82.9	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4
19.2	82.5	82.8	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6
19.4	82.7	83.0	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8
19.6	82.9	83.2	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	85.9
19.8	83.1	83.4	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.8	86.1
20.0	83.3	83.6	84.0	84.3	84.6	84.9	85.2	85.5	85.7	86.0	86.3
20.2	83.5	83.8	84.2	84.5	84.8	85.1	85.3	85.6	85.9	86.2	86.5
20.4	83.7	84.0	84.3	84.7	84.9	85.2	85.5	85.8	86.1	86.4	86.6
20.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.3	86.5	86.8
20.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0
21.0	84.3	84.6	84.9	85.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.10	10.11	10.12	10.13	10.14	10.15	10.16	10.17	10.18	10.19	10.20
21.0	84.3	84.6	84.9	85.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1
21.2	84.5	84.8	85.1	85.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3
21.4	84.7	85.0	85.3	85.6	85.9	86.1	86.4	86.7	86.9	87.2	87.5
21.6	84.9	85.2	85.5	85.7	86.0	86.3	86.6	86.8	87.1	87.4	87.6
21.8	85.1	85.4	85.6	85.9	86.2	86.5	86.7	87.0	87.3	87.5	87.8
22.0	85.3	85.5	85.8	86.1	86.4	86.6	86.9	87.2	87.4	87.7	87.9
22.2	85.4	85.7	86.0	86.3	86.5	86.8	87.1	87.3	87.6	87.8	88.1
22.4	85.6	85.9	86.2	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2
22.6	85.8	86.1	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4
22.8	86.0	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0	88.3	88.5
23.0	86.1	86.4	86.7	86.9	87.2	87.5	87.7	87.9	88.2	88.4	88.7
23.2	86.3	86.6	86.8	87.1	87.4	87.6	87.9	88.1	88.3	88.6	88.8
23.4	86.5	86.7	87.0	87.3	87.5	87.8	88.0	88.2	88.5	88.7	88.9
23.6	86.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1
23.8	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2
24.0	87.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9	89.1	89.4
24.2	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5
24.4	87.3	87.5	87.8	88.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6
24.6	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1	89.3	89.5	89.8
24.8	87.6	87.8	88.1	88.3	88.6	88.8	89.0	89.2	89.5	89.7	89.9
25.0	87.7	88.0	88.2	88.5	88.7	88.9	89.2	89.4	89.6	89.8	90.0
25.2	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5	89.7	89.9	90.1
25.4	88.0	88.3	88.5	88.8	89.0	89.2	89.4	89.6	89.9	90.1	90.3
25.6	88.2	88.4	88.7	88.9	89.1	89.3	89.6	89.8	90.0	90.2	90.4
25.8	88.3	88.6	88.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3	90.5
26.0	88.5	88.7	88.9	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6
26.2	88.6	88.9	89.1	89.3	89.5	89.7	89.9	90.2	90.4	90.6	90.7
26.4	88.8	89.0	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7	90.9
26.6	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0
26.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1
27.0	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2
27.2	89.3	89.5	89.7	90.0	90.2	90.4	90.6	90.8	90.9	91.1	91.3
27.4	89.4	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.2	91.4
27.6	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.5
27.8	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.6
28.0	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.7

TEMP DEG C	PH 10.10	10.11	10.12	10.13	10.14	10.15	10.16	10.17	10.18	10.19	10.20
28.0	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.7
28.2	90.0	90.2	90.4	90.6	90.8	90.9	91.1	91.3	91.5	91.7	91.9
28.4	90.1	90.3	90.5	90.7	90.9	91.1	91.2	91.4	91.6	91.8	92.0
28.6	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7	91.9	92.1
28.8	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.6	91.8	92.0	92.2
29.0	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.7	91.9	92.1	92.3
29.2	90.6	90.8	90.9	91.1	91.3	91.5	91.7	91.9	92.0	92.2	92.4
29.4	90.7	90.9	91.1	91.2	91.4	91.6	91.8	92.0	92.1	92.3	92.5
29.6	90.8	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.5
29.8	90.9	91.1	91.3	91.5	91.6	91.8	92.0	92.2	92.3	92.5	92.6
30.0	91.0	91.2	91.4	91.6	91.7	91.9	92.1	92.3	92.4	92.6	92.7
30.2	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.4	92.5	92.7	92.8
30.4	91.2	91.4	91.6	91.8	92.0	92.1	92.3	92.4	92.6	92.8	92.9
30.6	91.3	91.5	91.7	91.9	92.1	92.2	92.4	92.5	92.7	92.9	93.0
30.8	91.5	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1
31.0	91.6	91.7	91.9	92.1	92.2	92.4	92.6	92.7	92.9	93.0	93.2
31.2	91.7	91.8	92.0	92.2	92.3	92.5	92.7	92.8	93.0	93.1	93.3
31.4	91.8	91.9	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.3
31.6	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4
31.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5
32.0	92.1	92.2	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6
32.2	92.2	92.3	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.5	93.7
32.4	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.8
32.6	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8
32.8	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9
33.0	92.5	92.7	92.9	93.0	93.2	93.3	93.4	93.6	93.7	93.9	94.0
33.2	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8	93.9	94.1
33.4	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1
33.6	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2
33.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3
34.0	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.4
34.2	93.1	93.2	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4
34.4	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3	94.4	94.5
34.6	93.3	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6
34.8	93.3	93.5	93.6	93.8	93.9	94.0	94.1	94.3	94.4	94.5	94.6
35.0	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.3	94.5	94.6	94.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.10	10.11	10.12	10.13	10.14	10.15	10.16	10.17	10.18	10.19	10.20
35.0	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.3	94.5	94.6	94.7
35.2	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.6	94.8
35.4	93.6	93.7	93.8	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8
35.6	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.5	94.7	94.8	94.9
35.8	93.7	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.7	94.8	95.0
36.0	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0
36.2	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.7	94.9	95.0	95.1
36.4	94.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1
36.6	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1	95.2
36.8	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.1	95.2	95.3
37.0	94.2	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3
37.2	94.3	94.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3	95.4
37.4	94.3	94.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4
37.6	94.4	94.5	94.6	94.7	94.9	95.0	95.1	95.2	95.3	95.4	95.5
37.8	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5
38.0	94.5	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
38.2	94.6	94.7	94.8	94.9	95.0	95.2	95.3	95.4	95.5	95.6	95.7
38.4	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
38.6	94.7	94.8	94.9	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
38.8	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
39.0	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
39.2	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
39.4	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
39.6	95.0	95.1	95.3	95.4	95.5	95.6	95.6	95.7	95.8	95.9	96.0
39.8	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
40.0	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.8	95.9	96.0	96.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.20	10.21	10.22	10.23	10.24	10.25	10.26	10.27	10.28	10.29	10.30
.0	56.7	57.3	57.8	58.4	59.0	59.5	60.1	60.6	61.2	61.7	62.3
.2	57.1	57.7	58.3	58.8	59.4	59.9	60.5	61.0	61.6	62.1	62.7
.4	57.5	58.1	58.7	59.2	59.8	60.3	60.9	61.4	62.0	62.5	63.0
.6	58.0	58.5	59.1	59.6	60.2	60.7	61.3	61.8	62.4	62.9	63.4
.8	58.4	58.9	59.5	60.0	60.6	61.1	61.7	62.2	62.8	63.3	63.8
1.0	58.8	59.3	59.9	60.4	61.0	61.5	62.1	62.6	63.1	63.7	64.2
1.2	59.2	59.7	60.3	60.8	61.4	61.9	62.5	63.0	63.5	64.1	64.6
1.4	59.6	60.1	60.7	61.2	61.8	62.3	62.9	63.4	63.9	64.4	65.0
1.6	60.0	60.5	61.1	61.6	62.2	62.7	63.2	63.8	64.3	64.8	65.4
1.8	60.4	60.9	61.5	62.0	62.6	63.1	63.6	64.2	64.7	65.2	65.7
2.0	60.8	61.3	61.9	62.4	62.9	63.5	64.0	64.5	65.1	65.6	66.1
2.2	61.2	61.7	62.3	62.8	63.3	63.9	64.4	64.9	65.4	66.0	66.5
2.4	61.6	62.1	62.6	63.2	63.7	64.2	64.8	65.3	65.8	66.3	66.8
2.6	61.9	62.5	63.0	63.6	64.1	64.6	65.1	65.7	66.2	66.7	67.2
2.8	62.3	62.9	63.4	63.9	64.5	65.0	65.5	66.0	66.6	67.1	67.6
3.0	62.7	63.3	63.8	64.3	64.8	65.4	65.9	66.4	66.9	67.4	67.9
3.2	63.1	63.6	64.2	64.7	65.2	65.7	66.3	66.8	67.3	67.8	68.3
3.4	63.5	64.0	64.5	65.1	65.6	66.1	66.6	67.1	67.6	68.1	68.6
3.6	63.9	64.4	64.9	65.4	66.0	66.5	67.0	67.5	68.0	68.5	69.0
3.8	64.2	64.8	65.3	65.8	66.3	66.8	67.4	67.9	68.4	68.9	69.3
4.0	64.6	65.1	65.7	66.2	66.7	67.2	67.7	68.2	68.7	69.2	69.7
4.2	65.0	65.5	66.0	66.5	67.1	67.6	68.1	68.6	69.1	69.5	70.0
4.4	65.4	65.9	66.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4
4.6	65.7	66.2	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.2	70.7
4.8	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.6	71.1
5.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.4	70.9	71.4
5.2	66.8	67.3	67.8	68.3	68.8	69.3	69.8	70.3	70.8	71.2	71.7
5.4	67.2	67.7	68.2	68.7	69.2	69.7	70.1	70.6	71.1	71.6	72.0
5.6	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.4	71.9	72.4
5.8	67.9	68.4	68.9	69.4	69.9	70.3	70.8	71.3	71.8	72.2	72.7
6.0	68.2	68.7	69.2	69.7	70.2	70.7	71.2	71.6	72.1	72.6	73.0
6.2	68.6	69.1	69.6	70.1	70.5	71.0	71.5	72.0	72.4	72.9	73.3
6.4	68.9	69.4	69.9	70.4	70.9	71.3	71.8	72.3	72.7	73.2	73.6
6.6	69.3	69.8	70.2	70.7	71.2	71.7	72.1	72.6	73.1	73.5	73.9
6.8	69.6	70.1	70.6	71.1	71.5	72.0	72.5	72.9	73.4	73.8	74.3
7.0	70.0	70.4	70.9	71.4	71.9	72.3	72.8	73.2	73.7	74.1	74.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.20	10.21	10.22	10.23	10.24	10.25	10.26	10.27	10.28	10.29	10.30
7.0	70.0	70.4	70.9	71.4	71.9	72.3	72.8	73.2	73.7	74.1	74.6
7.2	70.3	70.8	71.2	71.7	72.2	72.6	73.1	73.5	74.0	74.4	74.9
7.4	70.6	71.1	71.6	72.0	72.5	73.0	73.4	73.9	74.3	74.7	75.2
7.6	71.0	71.4	71.9	72.4	72.8	73.3	73.7	74.2	74.6	75.0	75.5
7.8	71.3	71.7	72.2	72.7	73.1	73.6	74.0	74.5	74.9	75.3	75.8
8.0	71.6	72.1	72.5	73.0	73.4	73.9	74.3	74.8	75.2	75.6	76.0
8.2	71.9	72.4	72.8	73.3	73.7	74.2	74.6	75.1	75.5	75.9	76.3
8.4	72.2	72.7	73.2	73.6	74.1	74.5	74.9	75.4	75.8	76.2	76.6
8.6	72.6	73.0	73.5	73.9	74.4	74.8	75.2	75.6	76.1	76.5	76.9
8.8	72.9	73.3	73.8	74.2	74.7	75.1	75.5	75.9	76.4	76.8	77.2
9.0	73.2	73.6	74.1	74.5	75.0	75.4	75.8	76.2	76.6	77.1	77.5
9.2	73.5	73.9	74.4	74.8	75.2	75.7	76.1	76.5	76.9	77.3	77.7
9.4	73.8	74.2	74.7	75.1	75.5	76.0	76.4	76.8	77.2	77.6	78.0
9.6	74.1	74.5	75.0	75.4	75.8	76.2	76.7	77.1	77.5	77.9	78.3
9.8	74.4	74.8	75.3	75.7	76.1	76.5	76.9	77.3	77.8	78.1	78.5
10.0	74.7	75.1	75.6	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8
10.2	75.0	75.4	75.8	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1
10.4	75.3	75.7	76.1	76.5	77.0	77.4	77.8	78.2	78.6	78.9	79.3
10.6	75.6	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2	79.6
10.8	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.8
11.0	76.1	76.6	77.0	77.4	77.8	78.2	78.6	78.9	79.3	79.7	80.1
11.2	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2	79.6	80.0	80.3
11.4	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6
11.6	77.0	77.4	77.8	78.2	78.6	79.0	79.3	79.7	80.1	80.4	80.8
11.8	77.3	77.7	78.1	78.4	78.8	79.2	79.6	80.0	80.3	80.7	81.0
12.0	77.5	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6	80.9	81.3
12.2	77.8	78.2	78.6	79.0	79.3	79.7	80.1	80.5	80.8	81.2	81.5
12.4	78.1	78.5	78.8	79.2	79.6	80.0	80.3	80.7	81.1	81.4	81.7
12.6	78.3	78.7	79.1	79.5	79.8	80.2	80.6	80.9	81.3	81.6	82.0
12.8	78.6	79.0	79.3	79.7	80.1	80.5	80.8	81.2	81.5	81.9	82.2
13.0	78.8	79.2	79.6	80.0	80.3	80.7	81.1	81.4	81.7	82.1	82.4
13.2	79.1	79.5	79.8	80.2	80.6	80.9	81.3	81.6	82.0	82.3	82.6
13.4	79.3	79.7	80.1	80.5	80.8	81.2	81.5	81.9	82.2	82.5	82.9
13.6	79.6	80.0	80.3	80.7	81.1	81.4	81.7	82.1	82.4	82.8	83.1
13.8	79.8	80.2	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0	83.3
14.0	80.1	80.5	80.8	81.2	81.5	81.9	82.2	82.5	82.9	83.2	83.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.20	10.21	10.22	10.23	10.24	10.25	10.26	10.27	10.28	10.29	10.30
14.0	80.1	80.5	80.8	81.2	81.5	81.9	82.2	82.5	82.9	83.2	83.5
14.2	80.3	80.7	81.0	81.4	81.7	82.1	82.4	82.8	83.1	83.4	83.7
14.4	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9
14.6	80.8	81.2	81.5	81.9	82.2	82.5	82.9	83.2	83.5	83.8	84.1
14.8	81.0	81.4	81.7	82.1	82.4	82.7	83.1	83.4	83.7	84.0	84.3
15.0	81.3	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9	84.2	84.5
15.2	81.5	81.8	82.2	82.5	82.8	83.2	83.5	83.8	84.1	84.4	84.7
15.4	81.7	82.1	82.4	82.7	83.1	83.4	83.7	84.0	84.3	84.6	84.9
15.6	81.9	82.3	82.6	82.9	83.3	83.6	83.9	84.2	84.5	84.8	85.1
15.8	82.2	82.5	82.8	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3
16.0	82.4	82.7	83.0	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5
16.2	82.6	82.9	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7
16.4	82.8	83.1	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9
16.6	83.0	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.0
16.8	83.2	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	85.9	86.2
17.0	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.8	86.1	86.4
17.2	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.7	86.0	86.3	86.6
17.4	83.9	84.2	84.5	84.8	85.1	85.4	85.6	85.9	86.2	86.5	86.7
17.6	84.1	84.4	84.7	85.0	85.3	85.5	85.8	86.1	86.4	86.6	86.9
17.8	84.3	84.6	84.9	85.2	85.4	85.7	86.0	86.3	86.5	86.8	87.1
18.0	84.5	84.8	85.0	85.3	85.6	85.9	86.2	86.5	86.7	87.0	87.2
18.2	84.6	84.9	85.2	85.5	85.8	86.1	86.4	86.6	86.9	87.2	87.4
18.4	84.8	85.1	85.4	85.7	86.0	86.3	86.5	86.8	87.1	87.3	87.6
18.6	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0	87.2	87.5	87.7
18.8	85.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1	87.4	87.6	87.9
19.0	85.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0
19.2	85.6	85.9	86.1	86.4	86.7	86.9	87.2	87.5	87.7	88.0	88.2
19.4	85.8	86.0	86.3	86.6	86.8	87.1	87.4	87.6	87.9	88.1	88.3
19.6	85.9	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0	88.3	88.5
19.8	86.1	86.4	86.7	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6
20.0	86.3	86.6	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.6	88.8
20.2	86.5	86.7	87.0	87.2	87.5	87.8	88.0	88.2	88.5	88.7	88.9
20.4	86.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1
20.6	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2
20.8	87.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9	89.1	89.4
21.0	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5

TEMP DEG C	PH 10.20	10.21	10.22	10.23	10.24	10.25	10.26	10.27	10.28	10.29	10.30
21.0	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5
21.2	87.3	87.5	87.8	88.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6
21.4	87.5	87.7	87.9	88.2	88.4	88.7	88.9	89.1	89.3	89.6	89.8
21.6	87.6	87.9	88.1	88.3	88.6	88.8	89.0	89.3	89.5	89.7	89.9
21.8	87.8	88.0	88.3	88.5	88.7	88.9	89.2	89.4	89.6	89.8	90.0
22.0	87.9	88.2	88.4	88.6	88.9	89.1	89.3	89.5	89.7	90.0	90.2
22.2	88.1	88.3	88.5	88.8	89.0	89.2	89.4	89.7	89.9	90.1	90.3
22.4	88.2	88.5	88.7	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4
22.6	88.4	88.6	88.8	89.1	89.3	89.5	89.7	89.9	90.1	90.3	90.5
22.8	88.5	88.7	89.0	89.2	89.4	89.6	89.8	90.1	90.3	90.5	90.7
23.0	88.7	88.9	89.1	89.3	89.6	89.8	90.0	90.2	90.4	90.6	90.8
23.2	88.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9
23.4	88.9	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0
23.6	89.1	89.3	89.5	89.7	89.9	90.2	90.4	90.6	90.8	90.9	91.1
23.8	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.2
24.0	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4
24.2	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5
24.4	89.6	89.8	90.0	90.3	90.5	90.6	90.8	91.0	91.2	91.4	91.6
24.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.1	91.3	91.5	91.7
24.8	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.4	91.6	91.8
25.0	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.7	91.9
25.2	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0
25.4	90.3	90.5	90.7	90.9	91.0	91.2	91.4	91.6	91.8	91.9	92.1
25.6	90.4	90.6	90.8	91.0	91.2	91.3	91.5	91.7	91.9	92.0	92.2
25.8	90.5	90.7	90.9	91.1	91.3	91.5	91.6	91.8	92.0	92.1	92.3
26.0	90.6	90.8	91.0	91.2	91.4	91.6	91.7	91.9	92.1	92.2	92.4
26.2	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3	92.5
26.4	90.9	91.1	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4	92.6
26.6	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.5	92.7
26.8	91.1	91.3	91.5	91.6	91.8	92.0	92.2	92.3	92.5	92.6	92.8
27.0	91.2	91.4	91.6	91.7	91.9	92.1	92.3	92.4	92.6	92.7	92.9
27.2	91.3	91.5	91.7	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0
27.4	91.4	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1
27.6	91.5	91.7	91.9	92.1	92.2	92.4	92.5	92.7	92.9	93.0	93.2
27.8	91.6	91.8	92.0	92.2	92.3	92.5	92.6	92.8	93.0	93.1	93.2
28.0	91.7	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.20	10.21	10.22	10.23	10.24	10.25	10.26	10.27	10.28	10.29	10.30
28.0	91.7	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3
28.2	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4
28.4	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5
28.6	92.1	92.2	92.4	92.5	92.7	92.9	93.0	93.2	93.3	93.4	93.6
28.8	92.2	92.3	92.5	92.6	92.8	93.0	93.1	93.2	93.4	93.5	93.7
29.0	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.8
29.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8
29.4	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9
29.6	92.5	92.7	92.9	93.0	93.2	93.3	93.4	93.6	93.7	93.9	94.0
29.8	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8	93.9	94.1
30.0	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1
30.2	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2
30.4	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3
30.6	93.0	93.2	93.3	93.4	93.6	93.7	93.9	94.0	94.1	94.2	94.4
30.8	93.1	93.2	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4
31.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3	94.4	94.5
31.2	93.3	93.4	93.5	93.7	93.8	94.0	94.1	94.2	94.3	94.5	94.6
31.4	93.3	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.6
31.6	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.4	94.5	94.6	94.7
31.8	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.5	94.7	94.8
32.0	93.6	93.7	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.7	94.8
32.2	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9
32.4	93.8	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.8	94.9	95.0
32.6	93.8	94.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0
32.8	93.9	94.0	94.2	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1
33.0	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.1	95.2
33.2	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2
33.4	94.1	94.3	94.4	94.5	94.6	94.7	94.9	95.0	95.1	95.2	95.3
33.6	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3
33.8	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4
34.0	94.4	94.5	94.6	94.7	94.8	94.9	95.0	95.2	95.3	95.4	95.5
34.2	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5
34.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3	95.4	95.5	95.6
34.6	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
34.8	94.6	94.7	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
35.0	94.7	94.8	94.9	95.0	95.1	95.2	95.4	95.5	95.6	95.6	95.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.20	10.21	10.22	10.23	10.24	10.25	10.26	10.27	10.28	10.29	10.30
35.0	94.7	94.8	94.9	95.0	95.1	95.2	95.4	95.5	95.6	95.6	95.7
35.2	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
35.4	94.8	94.9	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.8
35.6	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
35.8	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
36.0	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
36.2	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
36.4	95.1	95.2	95.4	95.5	95.6	95.6	95.7	95.8	95.9	96.0	96.1
36.6	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2
36.8	95.3	95.4	95.5	95.6	95.7	95.8	95.8	95.9	96.0	96.1	96.2
37.0	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2
37.2	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.2	96.3
37.4	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3
37.6	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4
37.8	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4
38.0	95.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5
38.2	95.7	95.8	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5
38.4	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6
38.6	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6
38.8	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.6
39.0	95.9	96.0	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7
39.2	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7	96.7
39.4	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8
39.6	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8
39.8	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8
40.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.30	10.31	10.32	10.33	10.34	10.35	10.36	10.37	10.38	10.39	10.40
.0	62.3	62.8	63.3	63.9	64.4	64.9	65.4	66.0	66.5	67.0	67.5
.2	62.7	63.2	63.7	64.3	64.8	65.3	65.8	66.3	66.9	67.4	67.9
.4	63.0	63.6	64.1	64.6	65.2	65.7	66.2	66.7	67.2	67.7	68.2
.6	63.4	64.0	64.5	65.0	65.5	66.1	66.6	67.1	67.6	68.1	68.6
.8	63.8	64.4	64.9	65.4	65.9	66.4	67.0	67.5	68.0	68.5	69.0
1.0	64.2	64.7	65.3	65.8	66.3	66.8	67.3	67.8	68.3	68.8	69.3
1.2	64.6	65.1	65.6	66.2	66.7	67.2	67.7	68.2	68.7	69.2	69.7
1.4	65.0	65.5	66.0	66.5	67.0	67.5	68.1	68.5	69.0	69.5	70.0
1.6	65.4	65.9	66.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4
1.8	65.7	66.2	66.8	67.3	67.8	68.3	68.8	69.3	69.7	70.2	70.7
2.0	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.6	71.1
2.2	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.4	70.9	71.4
2.4	66.8	67.3	67.9	68.4	68.8	69.3	69.8	70.3	70.8	71.3	71.7
2.6	67.2	67.7	68.2	68.7	69.2	69.7	70.2	70.7	71.1	71.6	72.1
2.8	67.6	68.1	68.6	69.1	69.6	70.0	70.5	71.0	71.5	71.9	72.4
3.0	67.9	68.4	68.9	69.4	69.9	70.4	70.9	71.3	71.8	72.3	72.7
3.2	68.3	68.8	69.3	69.8	70.2	70.7	71.2	71.7	72.1	72.6	73.1
3.4	68.6	69.1	69.6	70.1	70.6	71.1	71.5	72.0	72.5	72.9	73.4
3.6	69.0	69.5	70.0	70.5	70.9	71.4	71.9	72.3	72.8	73.2	73.7
3.8	69.3	69.8	70.3	70.8	71.3	71.7	72.2	72.7	73.1	73.6	74.0
4.0	69.7	70.2	70.7	71.1	71.6	72.1	72.5	73.0	73.4	73.9	74.3
4.2	70.0	70.5	71.0	71.5	71.9	72.4	72.9	73.3	73.8	74.2	74.6
4.4	70.4	70.9	71.3	71.8	72.3	72.7	73.2	73.6	74.1	74.5	74.9
4.6	70.7	71.2	71.7	72.1	72.6	73.0	73.5	73.9	74.4	74.8	75.2
4.8	71.1	71.5	72.0	72.5	72.9	73.4	73.8	74.2	74.7	75.1	75.5
5.0	71.4	71.9	72.3	72.8	73.2	73.7	74.1	74.6	75.0	75.4	75.8
5.2	71.7	72.2	72.6	73.1	73.5	74.0	74.4	74.9	75.3	75.7	76.1
5.4	72.0	72.5	73.0	73.4	73.9	74.3	74.7	75.2	75.6	76.0	76.4
5.6	72.4	72.8	73.3	73.7	74.2	74.6	75.0	75.5	75.9	76.3	76.7
5.8	72.7	73.1	73.6	74.0	74.5	74.9	75.3	75.8	76.2	76.6	77.0
6.0	73.0	73.5	73.9	74.3	74.8	75.2	75.6	76.1	76.5	76.9	77.3
6.2	73.3	73.8	74.2	74.7	75.1	75.5	75.9	76.4	76.8	77.2	77.6
6.4	73.6	74.1	74.5	75.0	75.4	75.8	76.2	76.6	77.1	77.5	77.9
6.6	73.9	74.4	74.8	75.3	75.7	76.1	76.5	76.9	77.3	77.7	78.1
6.8	74.3	74.7	75.1	75.6	76.0	76.4	76.8	77.2	77.6	78.0	78.4
7.0	74.6	75.0	75.4	75.8	76.3	76.7	77.1	77.5	77.9	78.3	78.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.30	10.31	10.32	10.33	10.34	10.35	10.36	10.37	10.38	10.39	10.40
7.0	74.6	75.0	75.4	75.8	76.3	76.7	77.1	77.5	77.9	78.3	78.7
7.2	74.9	75.3	75.7	76.1	76.6	77.0	77.4	77.8	78.2	78.6	78.9
7.4	75.2	75.6	76.0	76.4	76.8	77.2	77.7	78.0	78.4	78.8	79.2
7.6	75.5	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5
7.8	75.8	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.4	79.7
8.0	76.0	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.2	79.6	80.0
8.2	76.3	76.7	77.2	77.6	78.0	78.3	78.7	79.1	79.5	79.9	80.2
8.4	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.4	79.8	80.1	80.5
8.6	76.9	77.3	77.7	78.1	78.5	78.9	79.3	79.6	80.0	80.4	80.7
8.8	77.2	77.6	78.0	78.4	78.8	79.1	79.5	79.9	80.3	80.6	81.0
9.0	77.5	77.9	78.3	78.6	79.0	79.4	79.8	80.1	80.5	80.9	81.2
9.2	77.7	78.1	78.5	78.9	79.3	79.7	80.0	80.4	80.8	81.1	81.5
9.4	78.0	78.4	78.8	79.2	79.5	79.9	80.3	80.6	81.0	81.4	81.7
9.6	78.3	78.7	79.0	79.4	79.8	80.2	80.5	80.9	81.2	81.6	81.9
9.8	78.5	78.9	79.3	79.7	80.0	80.4	80.8	81.1	81.5	81.8	82.2
10.0	78.8	79.2	79.6	79.9	80.3	80.7	81.0	81.4	81.7	82.1	82.4
10.2	79.1	79.4	79.8	80.2	80.5	80.9	81.3	81.6	81.9	82.3	82.6
10.4	79.3	79.7	80.1	80.4	80.8	81.1	81.5	81.8	82.2	82.5	82.8
10.6	79.6	79.9	80.3	80.7	81.0	81.4	81.7	82.1	82.4	82.7	83.1
10.8	79.8	80.2	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0	83.3
11.0	80.1	80.4	80.8	81.2	81.5	81.8	82.2	82.5	82.9	83.2	83.5
11.2	80.3	80.7	81.0	81.4	81.7	82.1	82.4	82.7	83.1	83.4	83.7
11.4	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9
11.6	80.8	81.2	81.5	81.9	82.2	82.5	82.9	83.2	83.5	83.8	84.1
11.8	81.0	81.4	81.7	82.1	82.4	82.8	83.1	83.4	83.7	84.0	84.3
12.0	81.3	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9	84.2	84.5
12.2	81.5	81.9	82.2	82.5	82.9	83.2	83.5	83.8	84.1	84.4	84.7
12.4	81.7	82.1	82.4	82.8	83.1	83.4	83.7	84.0	84.3	84.6	84.9
12.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9	84.2	84.5	84.8	85.1
12.8	82.2	82.5	82.9	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3
13.0	82.4	82.8	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5
13.2	82.6	83.0	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7
13.4	82.9	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9
13.6	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.1
13.8	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.3
14.0	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.30	10.31	10.32	10.33	10.34	10.35	10.36	10.37	10.38	10.39	10.40
14.0	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4
14.2	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.1	86.3	86.6
14.4	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.3	86.5	86.8
14.6	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0
14.8	84.3	84.6	84.9	85.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1
15.0	84.5	84.8	85.1	85.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3
15.2	84.7	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0	87.2	87.5
15.4	84.9	85.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1	87.4	87.6
15.6	85.1	85.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.5	87.8
15.8	85.3	85.6	85.9	86.1	86.4	86.7	86.9	87.2	87.5	87.7	88.0
16.0	85.5	85.8	86.0	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1
16.2	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0	88.3
16.4	85.9	86.1	86.4	86.7	86.9	87.2	87.5	87.7	87.9	88.2	88.4
16.6	86.0	86.3	86.6	86.8	87.1	87.4	87.6	87.9	88.1	88.3	88.6
16.8	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0	88.3	88.5	88.7
17.0	86.4	86.7	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9
17.2	86.6	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.6	88.8	89.0
17.4	86.7	87.0	87.3	87.5	87.8	88.0	88.2	88.5	88.7	88.9	89.2
17.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1	89.3
17.8	87.1	87.3	87.6	87.8	88.1	88.3	88.6	88.8	89.0	89.2	89.5
18.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9	89.2	89.4	89.6
18.2	87.4	87.7	87.9	88.1	88.4	88.6	88.9	89.1	89.3	89.5	89.7
18.4	87.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2	89.4	89.7	89.9
18.6	87.7	88.0	88.2	88.5	88.7	88.9	89.1	89.4	89.6	89.8	90.0
18.8	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5	89.7	89.9	90.1
19.0	88.0	88.3	88.5	88.8	89.0	89.2	89.4	89.6	89.8	90.1	90.3
19.2	88.2	88.4	88.7	88.9	89.1	89.3	89.6	89.8	90.0	90.2	90.4
19.4	88.3	88.6	88.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3	90.5
19.6	88.5	88.7	89.0	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6
19.8	88.6	88.9	89.1	89.3	89.5	89.8	90.0	90.2	90.4	90.6	90.8
20.0	88.8	89.0	89.2	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9
20.2	88.9	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0
20.4	89.1	89.3	89.5	89.7	89.9	90.2	90.4	90.6	90.7	90.9	91.1
20.6	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.2
20.8	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4
21.0	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.30	10.31	10.32	10.33	10.34	10.35	10.36	10.37	10.38	10.39	10.40
21.0	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5
21.2	89.6	89.8	90.1	90.3	90.5	90.7	90.8	91.0	91.2	91.4	91.6
21.4	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.3	91.5	91.7
21.6	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.6	91.8
21.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.7	91.9
22.0	90.2	90.4	90.6	90.8	90.9	91.1	91.3	91.5	91.7	91.9	92.0
22.2	90.3	90.5	90.7	90.9	91.1	91.2	91.4	91.6	91.8	92.0	92.1
22.4	90.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2
22.6	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3
22.8	90.7	90.9	91.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4
23.0	90.8	91.0	91.2	91.3	91.5	91.7	91.9	92.0	92.2	92.4	92.5
23.2	90.9	91.1	91.3	91.5	91.6	91.8	92.0	92.1	92.3	92.5	92.6
23.4	91.0	91.2	91.4	91.6	91.7	91.9	92.1	92.2	92.4	92.6	92.7
23.6	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.4	92.5	92.7	92.8
23.8	91.2	91.4	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9
24.0	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.5	92.7	92.9	93.0
24.2	91.5	91.6	91.8	92.0	92.2	92.3	92.5	92.6	92.8	93.0	93.1
24.4	91.6	91.8	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.0	93.2
24.6	91.7	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3
24.8	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4
25.0	91.9	92.1	92.2	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5
25.2	92.0	92.2	92.3	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.5
25.4	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.3	93.5	93.6
25.6	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7
25.8	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8
26.0	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9
26.2	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0
26.4	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0
26.6	92.7	92.9	93.0	93.2	93.3	93.4	93.6	93.7	93.9	94.0	94.1
26.8	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8	93.9	94.1	94.2
27.0	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3
27.2	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.3
27.4	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4
27.6	93.2	93.3	93.4	93.6	93.7	93.9	94.0	94.1	94.2	94.4	94.5
27.8	93.2	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6
28.0	93.3	93.5	93.6	93.8	93.9	94.0	94.1	94.3	94.4	94.5	94.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.30	10.31	10.32	10.33	10.34	10.35	10.36	10.37	10.38	10.39	10.40
28.0	93.3	93.5	93.6	93.8	93.9	94.0	94.1	94.3	94.4	94.5	94.6
28.2	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.3	94.5	94.6	94.7
28.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.7	94.8
28.6	93.6	93.7	93.9	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8
28.8	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9
29.0	93.8	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.7	94.9	95.0
29.2	93.8	94.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0
29.4	93.9	94.0	94.2	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1
29.6	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.1	95.2
29.8	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2
30.0	94.1	94.3	94.4	94.5	94.6	94.7	94.9	95.0	95.1	95.2	95.3
30.2	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3
30.4	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4
30.6	94.4	94.5	94.6	94.7	94.8	94.9	95.1	95.2	95.3	95.4	95.5
30.8	94.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5
31.0	94.5	94.6	94.7	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
31.2	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
31.4	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
31.6	94.7	94.8	94.9	95.0	95.2	95.3	95.4	95.5	95.6	95.7	95.8
31.8	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
32.0	94.8	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
32.2	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
32.4	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
32.6	95.0	95.1	95.3	95.4	95.5	95.6	95.7	95.7	95.8	95.9	96.0
32.8	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
33.0	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1
33.2	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2
33.4	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.2
33.6	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3
33.8	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3
34.0	95.5	95.6	95.7	95.8	95.8	95.9	96.0	96.1	96.2	96.3	96.4
34.2	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4
34.4	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.2	96.3	96.4	96.5
34.6	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5
34.8	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.5
35.0	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.30	10.31	10.32	10.33	10.34	10.35	10.36	10.37	10.38	10.39	10.40
35.0	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6
35.2	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6
35.4	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7
35.6	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7
35.8	96.0	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8
36.0	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7	96.7	96.8
36.2	96.1	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8
36.4	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9
36.6	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8	96.9
36.8	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	97.0
37.0	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0
37.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0
37.4	96.3	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1
37.6	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1
37.8	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1
38.0	96.5	96.6	96.6	96.7	96.8	96.8	96.9	97.0	97.1	97.1	97.2
38.2	96.5	96.6	96.7	96.7	96.8	96.9	97.0	97.0	97.1	97.2	97.2
38.4	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3
38.6	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3
38.8	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3
39.0	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4
39.2	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4
39.4	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4
39.6	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4
39.8	96.8	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5
40.0	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.40	10.41	10.42	10.43	10.44	10.45	10.46	10.47	10.48	10.49	10.50
.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	70.9	71.4	71.9	72.3
.2	67.9	68.4	68.9	69.4	69.8	70.3	70.8	71.3	71.7	72.2	72.7
.4	68.2	68.7	69.2	69.7	70.2	70.7	71.2	71.6	72.1	72.5	73.0
.6	68.6	69.1	69.6	70.1	70.5	71.0	71.5	72.0	72.4	72.9	73.3
.8	69.0	69.4	69.9	70.4	70.9	71.4	71.8	72.3	72.8	73.2	73.7
1.0	69.3	69.8	70.3	70.8	71.2	71.7	72.2	72.6	73.1	73.5	74.0
1.2	69.7	70.2	70.6	71.1	71.6	72.0	72.5	73.0	73.4	73.9	74.3
1.4	70.0	70.5	71.0	71.4	71.9	72.4	72.8	73.3	73.7	74.2	74.6
1.6	70.4	70.8	71.3	71.8	72.3	72.7	73.2	73.6	74.1	74.5	74.9
1.8	70.7	71.2	71.7	72.1	72.6	73.0	73.5	73.9	74.4	74.8	75.2
2.0	71.1	71.5	72.0	72.5	72.9	73.4	73.8	74.3	74.7	75.1	75.6
2.2	71.4	71.9	72.3	72.8	73.2	73.7	74.1	74.6	75.0	75.4	75.9
2.4	71.7	72.2	72.7	73.1	73.6	74.0	74.4	74.9	75.3	75.7	76.2
2.6	72.1	72.5	73.0	73.4	73.9	74.3	74.8	75.2	75.6	76.0	76.5
2.8	72.4	72.9	73.3	73.8	74.2	74.6	75.1	75.5	75.9	76.3	76.8
3.0	72.7	73.2	73.6	74.1	74.5	74.9	75.4	75.8	76.2	76.6	77.0
3.2	73.1	73.5	73.9	74.4	74.8	75.3	75.7	76.1	76.5	76.9	77.3
3.4	73.4	73.8	74.3	74.7	75.1	75.6	76.0	76.4	76.8	77.2	77.6
3.6	73.7	74.1	74.6	75.0	75.4	75.9	76.3	76.7	77.1	77.5	77.9
3.8	74.0	74.4	74.9	75.3	75.7	76.2	76.6	77.0	77.4	77.8	78.2
4.0	74.3	74.8	75.2	75.6	76.0	76.5	76.9	77.3	77.7	78.1	78.5
4.2	74.6	75.1	75.5	75.9	76.3	76.8	77.2	77.6	78.0	78.4	78.7
4.4	74.9	75.4	75.8	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0
4.6	75.2	75.7	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.3
4.8	75.5	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2	79.5
5.0	75.8	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.4	79.8
5.2	76.1	76.6	77.0	77.4	77.8	78.2	78.6	78.9	79.3	79.7	80.1
5.4	76.4	76.8	77.3	77.7	78.1	78.4	78.8	79.2	79.6	80.0	80.3
5.6	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.9	80.2	80.6
5.8	77.0	77.4	77.8	78.2	78.6	79.0	79.4	79.7	80.1	80.5	80.8
6.0	77.3	77.7	78.1	78.5	78.9	79.3	79.6	80.0	80.4	80.7	81.1
6.2	77.6	78.0	78.4	78.8	79.1	79.5	79.9	80.3	80.6	81.0	81.3
6.4	77.9	78.3	78.6	79.0	79.4	79.8	80.1	80.5	80.9	81.2	81.6
6.6	78.1	78.5	78.9	79.3	79.7	80.0	80.4	80.8	81.1	81.5	81.8
6.8	78.4	78.8	79.2	79.6	79.9	80.3	80.7	81.0	81.4	81.7	82.1
7.0	78.7	79.1	79.4	79.8	80.2	80.5	80.9	81.3	81.6	81.9	82.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.40	10.41	10.42	10.43	10.44	10.45	10.46	10.47	10.48	10.49	10.50
7.0	78.7	79.1	79.4	79.8	80.2	80.5	80.9	81.3	81.6	81.9	82.3
7.2	78.9	79.3	79.7	80.1	80.4	80.8	81.1	81.5	81.8	82.2	82.5
7.4	79.2	79.6	80.0	80.3	80.7	81.0	81.4	81.7	82.1	82.4	82.7
7.6	79.5	79.8	80.2	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0
7.8	79.7	80.1	80.5	80.8	81.2	81.5	81.9	82.2	82.5	82.9	83.2
8.0	80.0	80.4	80.7	81.1	81.4	81.8	82.1	82.4	82.8	83.1	83.4
8.2	80.2	80.6	81.0	81.3	81.7	82.0	82.3	82.7	83.0	83.3	83.6
8.4	80.5	80.8	81.2	81.5	81.9	82.2	82.6	82.9	83.2	83.5	83.9
8.6	80.7	81.1	81.4	81.8	82.1	82.5	82.8	83.1	83.4	83.8	84.1
8.8	81.0	81.3	81.7	82.0	82.4	82.7	83.0	83.3	83.7	84.0	84.3
9.0	81.2	81.6	81.9	82.3	82.6	82.9	83.2	83.6	83.9	84.2	84.5
9.2	81.5	81.8	82.1	82.5	82.8	83.1	83.5	83.8	84.1	84.4	84.7
9.4	81.7	82.0	82.4	82.7	83.0	83.4	83.7	84.0	84.3	84.6	84.9
9.6	81.9	82.3	82.6	82.9	83.3	83.6	83.9	84.2	84.5	84.8	85.1
9.8	82.2	82.5	82.8	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3
10.0	82.4	82.7	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5
10.2	82.6	82.9	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7
10.4	82.8	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9
10.6	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.1
10.8	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.2
11.0	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4
11.2	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.1	86.3	86.6
11.4	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.3	86.5	86.8
11.6	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0
11.8	84.3	84.6	84.9	85.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1
12.0	84.5	84.8	85.1	85.4	85.7	86.0	86.3	86.5	86.8	87.1	87.3
12.2	84.7	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0	87.2	87.5
12.4	84.9	85.2	85.5	85.8	86.1	86.4	86.6	86.9	87.1	87.4	87.7
12.6	85.1	85.4	85.7	86.0	86.3	86.5	86.8	87.1	87.3	87.6	87.8
12.8	85.3	85.6	85.9	86.2	86.4	86.7	87.0	87.2	87.5	87.7	88.0
13.0	85.5	85.8	86.1	86.4	86.6	86.9	87.1	87.4	87.7	87.9	88.1
13.2	85.7	86.0	86.3	86.5	86.8	87.1	87.3	87.6	87.8	88.1	88.3
13.4	85.9	86.2	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.5
13.6	86.1	86.4	86.6	86.9	87.1	87.4	87.7	87.9	88.1	88.4	88.6
13.8	86.3	86.5	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5	88.8
14.0	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.40	10.41	10.42	10.43	10.44	10.45	10.46	10.47	10.48	10.49	10.50
14.0	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9
14.2	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1
14.4	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2
14.6	87.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9	89.1	89.4
14.8	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5
15.0	87.3	87.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2	89.4	89.6
15.2	87.5	87.7	88.0	88.2	88.4	88.7	88.9	89.1	89.4	89.6	89.8
15.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5	89.7	89.9
15.6	87.8	88.0	88.3	88.5	88.8	89.0	89.2	89.4	89.6	89.9	90.1
15.8	88.0	88.2	88.4	88.7	88.9	89.1	89.3	89.6	89.8	90.0	90.2
16.0	88.1	88.4	88.6	88.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3
16.2	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8	90.0	90.3	90.5
16.4	88.4	88.7	88.9	89.1	89.3	89.6	89.8	90.0	90.2	90.4	90.6
16.6	88.6	88.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7
16.8	88.7	89.0	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8
17.0	88.9	89.1	89.3	89.5	89.8	90.0	90.2	90.4	90.6	90.8	91.0
17.2	89.0	89.2	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1
17.4	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2
17.6	89.3	89.5	89.7	90.0	90.2	90.4	90.6	90.8	90.9	91.1	91.3
17.8	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.4
18.0	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.6
18.2	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.7
18.4	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.2	91.4	91.6	91.8
18.6	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7	91.9
18.8	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0
19.0	90.3	90.5	90.7	90.9	91.0	91.2	91.4	91.6	91.8	91.9	92.1
19.2	90.4	90.6	90.8	91.0	91.2	91.3	91.5	91.7	91.9	92.0	92.2
19.4	90.5	90.7	90.9	91.1	91.3	91.5	91.6	91.8	92.0	92.2	92.3
19.6	90.6	90.8	91.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4
19.8	90.8	91.0	91.1	91.3	91.5	91.7	91.9	92.0	92.2	92.4	92.5
20.0	90.9	91.1	91.3	91.4	91.6	91.8	92.0	92.1	92.3	92.5	92.6
20.2	91.0	91.2	91.4	91.6	91.7	91.9	92.1	92.2	92.4	92.6	92.7
20.4	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.7	92.8
20.6	91.2	91.4	91.6	91.8	92.0	92.1	92.3	92.4	92.6	92.8	92.9
20.8	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.5	92.7	92.9	93.0
21.0	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.6	92.8	93.0	93.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.40	10.41	10.42	10.43	10.44	10.45	10.46	10.47	10.48	10.49	10.50
21.0	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.6	92.8	93.0	93.1
21.2	91.6	91.8	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.1	93.2
21.4	91.7	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3
21.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4
21.8	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5
22.0	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6
22.2	92.1	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6
22.4	92.2	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7
22.6	92.3	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.5	93.7	93.8
22.8	92.4	92.6	92.7	92.9	93.1	93.2	93.3	93.5	93.6	93.8	93.9
23.0	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0
23.2	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8	93.9	94.1
23.4	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1
23.6	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2
23.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3
24.0	93.0	93.2	93.3	93.4	93.6	93.7	93.9	94.0	94.1	94.2	94.4
24.2	93.1	93.3	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4
24.4	93.2	93.3	93.5	93.6	93.8	93.9	94.0	94.1	94.3	94.4	94.5
24.6	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.3	94.5	94.6
24.8	93.4	93.5	93.7	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.7
25.0	93.5	93.6	93.7	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.7
25.2	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.5	94.6	94.7	94.8
25.4	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9
25.6	93.7	93.8	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9
25.8	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0
26.0	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.7	94.9	95.0	95.1
26.2	94.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1
26.4	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1	95.2
26.6	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.1	95.2	95.3
26.8	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3
27.0	94.3	94.4	94.5	94.6	94.7	94.9	95.0	95.1	95.2	95.3	95.4
27.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.4	95.5
27.4	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5
27.6	94.5	94.6	94.7	94.8	94.9	95.1	95.2	95.3	95.4	95.5	95.6
27.8	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
28.0	94.6	94.7	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.40	10.41	10.42	10.43	10.44	10.45	10.46	10.47	10.48	10.49	10.50
28.0	94.6	94.7	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
28.2	94.7	94.8	94.9	95.0	95.1	95.2	95.4	95.5	95.6	95.6	95.7
28.4	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
28.6	94.8	94.9	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
28.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
29.0	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
29.2	95.0	95.1	95.2	95.4	95.5	95.6	95.6	95.7	95.8	95.9	96.0
29.4	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
29.6	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1
29.8	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2
30.0	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2
30.2	95.3	95.5	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3
30.4	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3
30.6	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4
30.8	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4
31.0	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.2	96.3	96.4	96.5
31.2	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5
31.4	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.6
31.6	95.8	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6
31.8	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6
32.0	95.9	96.0	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7
32.2	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7	96.7
32.4	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8
32.6	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8
32.8	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9
33.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9
33.2	96.2	96.3	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9
33.4	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0
33.6	96.3	96.3	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0
33.8	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8	96.9	97.0	97.1
34.0	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	97.0	97.0	97.1
34.2	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1
34.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2
34.6	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2
34.8	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2
35.0	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.40	10.41	10.42	10.43	10.44	10.45	10.46	10.47	10.48	10.49	10.50
35.0	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3
35.2	96.6	96.7	96.8	96.8	96.9	97.0	97.1	97.1	97.2	97.2	97.3
35.4	96.7	96.7	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3
35.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4
35.8	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4
36.0	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4
36.2	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5
36.4	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5
36.6	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5
36.8	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6
37.0	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.5	97.6
37.2	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6
37.4	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7
37.6	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7
37.8	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7
38.0	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7
38.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
38.4	97.3	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.8	97.8
38.6	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
38.8	97.3	97.4	97.4	97.5	97.5	97.6	97.7	97.7	97.8	97.8	97.9
39.0	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
39.2	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
39.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
39.6	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
39.8	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
40.0	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0

TEMP DEG C	PH 10.50	10.51	10.52	10.53	10.54	10.55	10.56	10.57	10.58	10.59	10.60
.0	72.3	72.8	73.2	73.7	74.1	74.6	75.0	75.4	75.9	76.3	76.7
.2	72.7	73.1	73.6	74.0	74.5	74.9	75.3	75.8	76.2	76.6	77.0
.4	73.0	73.5	73.9	74.3	74.8	75.2	75.6	76.1	76.5	76.9	77.3
.6	73.3	73.8	74.2	74.7	75.1	75.5	75.9	76.4	76.8	77.2	77.6
.8	73.7	74.1	74.5	75.0	75.4	75.8	76.3	76.7	77.1	77.5	77.9
1.0	74.0	74.4	74.9	75.3	75.7	76.1	76.6	77.0	77.4	77.8	78.2
1.2	74.3	74.7	75.2	75.6	76.0	76.4	76.9	77.3	77.7	78.1	78.4
1.4	74.6	75.1	75.5	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7
1.6	74.9	75.4	75.8	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0
1.8	75.2	75.7	76.1	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.3
2.0	75.6	76.0	76.4	76.8	77.2	77.6	78.0	78.4	78.8	79.2	79.6
2.2	75.9	76.3	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.4	79.8
2.4	76.2	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.3	79.7	80.1
2.6	76.5	76.9	77.3	77.7	78.1	78.5	78.9	79.2	79.6	80.0	80.3
2.8	76.8	77.2	77.6	78.0	78.4	78.7	79.1	79.5	79.9	80.2	80.6
3.0	77.0	77.5	77.9	78.2	78.6	79.0	79.4	79.8	80.1	80.5	80.9
3.2	77.3	77.7	78.1	78.5	78.9	79.3	79.7	80.0	80.4	80.8	81.1
3.4	77.6	78.0	78.4	78.8	79.2	79.6	79.9	80.3	80.7	81.0	81.4
3.6	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6	80.9	81.3	81.6
3.8	78.2	78.6	79.0	79.3	79.7	80.1	80.5	80.8	81.2	81.5	81.9
4.0	78.5	78.9	79.2	79.6	80.0	80.3	80.7	81.1	81.4	81.8	82.1
4.2	78.7	79.1	79.5	79.9	80.2	80.6	81.0	81.3	81.7	82.0	82.3
4.4	79.0	79.4	79.8	80.1	80.5	80.9	81.2	81.6	81.9	82.2	82.6
4.6	79.3	79.7	80.0	80.4	80.8	81.1	81.5	81.8	82.1	82.5	82.8
4.8	79.5	79.9	80.3	80.6	81.0	81.4	81.7	82.0	82.4	82.7	83.0
5.0	79.8	80.2	80.5	80.9	81.3	81.6	81.9	82.3	82.6	82.9	83.3
5.2	80.1	80.4	80.8	81.2	81.5	81.8	82.2	82.5	82.8	83.2	83.5
5.4	80.3	80.7	81.0	81.4	81.7	82.1	82.4	82.8	83.1	83.4	83.7
5.6	80.6	80.9	81.3	81.6	82.0	82.3	82.7	83.0	83.3	83.6	83.9
5.8	80.8	81.2	81.5	81.9	82.2	82.6	82.9	83.2	83.5	83.8	84.2
6.0	81.1	81.4	81.8	82.1	82.5	82.8	83.1	83.4	83.7	84.1	84.4
6.2	81.3	81.7	82.0	82.4	82.7	83.0	83.3	83.7	84.0	84.3	84.6
6.4	81.6	81.9	82.3	82.6	82.9	83.2	83.6	83.9	84.2	84.5	84.8
6.6	81.8	82.2	82.5	82.8	83.1	83.5	83.8	84.1	84.4	84.7	85.0
6.8	82.1	82.4	82.7	83.0	83.4	83.7	84.0	84.3	84.6	84.9	85.2
7.0	82.3	82.6	82.9	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4

TEMP DEG C	PH 10.50	10.51	10.52	10.53	10.54	10.55	10.56	10.57	10.58	10.59	10.60
7.0	82.3	82.6	82.9	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4
7.2	82.5	82.8	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6
7.4	82.7	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8
7.6	83.0	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0
7.8	83.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2
8.0	83.4	83.7	84.0	84.4	84.7	85.0	85.2	85.5	85.8	86.1	86.4
8.2	83.6	83.9	84.3	84.6	84.9	85.2	85.4	85.7	86.0	86.3	86.5
8.4	83.9	84.2	84.5	84.8	85.1	85.4	85.6	85.9	86.2	86.5	86.7
8.6	84.1	84.4	84.7	85.0	85.3	85.5	85.8	86.1	86.4	86.7	86.9
8.8	84.3	84.6	84.9	85.2	85.5	85.7	86.0	86.3	86.6	86.8	87.1
9.0	84.5	84.8	85.1	85.4	85.7	85.9	86.2	86.5	86.7	87.0	87.3
9.2	84.7	85.0	85.3	85.6	85.8	86.1	86.4	86.7	86.9	87.2	87.4
9.4	84.9	85.2	85.5	85.8	86.0	86.3	86.6	86.8	87.1	87.4	87.6
9.6	85.1	85.4	85.7	85.9	86.2	86.5	86.8	87.0	87.3	87.5	87.8
9.8	85.3	85.6	85.9	86.1	86.4	86.7	86.9	87.2	87.5	87.7	88.0
10.0	85.5	85.8	86.1	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1
10.2	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0	88.3
10.4	85.9	86.1	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.4
10.6	86.1	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4	88.6
10.8	86.2	86.5	86.8	87.0	87.3	87.6	87.8	88.0	88.3	88.5	88.8
11.0	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.4	88.7	88.9
11.2	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1
11.4	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2
11.6	87.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9	89.1	89.4
11.8	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5
12.0	87.3	87.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2	89.4	89.7
12.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9	89.1	89.4	89.6	89.8
12.4	87.7	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5	89.7	89.9
12.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2	89.4	89.7	89.9	90.1
12.8	88.0	88.2	88.5	88.7	88.9	89.1	89.4	89.6	89.8	90.0	90.2
13.0	88.1	88.4	88.6	88.8	89.1	89.3	89.5	89.7	89.9	90.1	90.3
13.2	88.3	88.5	88.8	89.0	89.2	89.4	89.7	89.9	90.1	90.3	90.5
13.4	88.5	88.7	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4	90.6
13.6	88.6	88.8	89.1	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7
13.8	88.8	89.0	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7	90.9
14.0	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0

TEMP DEG C	PH 10.50	10.51	10.52	10.53	10.54	10.55	10.56	10.57	10.58	10.59	10.60
14.0	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0
14.2	89.1	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1
14.4	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.2
14.6	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4
14.8	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5
15.0	89.6	89.9	90.1	90.3	90.5	90.7	90.9	91.0	91.2	91.4	91.6
15.2	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7
15.4	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.8
15.6	90.1	90.3	90.5	90.7	90.9	91.0	91.2	91.4	91.6	91.8	91.9
15.8	90.2	90.4	90.6	90.8	91.0	91.2	91.3	91.5	91.7	91.9	92.0
16.0	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.6	91.8	92.0	92.2
16.2	90.5	90.7	90.8	91.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3
16.4	90.6	90.8	91.0	91.2	91.3	91.5	91.7	91.9	92.0	92.2	92.4
16.6	90.7	90.9	91.1	91.3	91.5	91.6	91.8	92.0	92.2	92.3	92.5
16.8	90.8	91.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4	92.6
17.0	91.0	91.1	91.3	91.5	91.7	91.9	92.0	92.2	92.4	92.5	92.7
17.2	91.1	91.3	91.4	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8
17.4	91.2	91.4	91.6	91.7	91.9	92.1	92.2	92.4	92.6	92.7	92.9
17.6	91.3	91.5	91.7	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0
17.8	91.4	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1
18.0	91.6	91.7	91.9	92.1	92.2	92.4	92.6	92.7	92.9	93.0	93.2
18.2	91.7	91.8	92.0	92.2	92.3	92.5	92.7	92.8	93.0	93.1	93.3
18.4	91.8	92.0	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.4
18.6	91.9	92.1	92.2	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.4
18.8	92.0	92.2	92.3	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.5
19.0	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.3	93.5	93.6
19.2	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7
19.4	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8
19.6	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.8	93.9
19.8	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0
20.0	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8	93.9	94.1
20.2	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1
20.4	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2
20.6	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3
20.8	93.0	93.2	93.3	93.4	93.6	93.7	93.9	94.0	94.1	94.2	94.4
21.0	93.1	93.3	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.50	10.51	10.52	10.53	10.54	10.55	10.56	10.57	10.58	10.59	10.60
21.0	93.1	93.3	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4
21.2	93.2	93.3	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5
21.4	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.4	94.5	94.6
21.6	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7
21.8	93.5	93.6	93.7	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.7
22.0	93.6	93.7	93.8	94.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8
22.2	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.7	94.8	94.9
22.4	93.7	93.9	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	95.0
22.6	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0
22.8	93.9	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1
23.0	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.0	95.2
23.2	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2
23.4	94.1	94.3	94.4	94.5	94.6	94.7	94.9	95.0	95.1	95.2	95.3
23.6	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3
23.8	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4
24.0	94.4	94.5	94.6	94.7	94.8	94.9	95.1	95.2	95.3	95.4	95.5
24.2	94.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5
24.4	94.5	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
24.6	94.6	94.7	94.8	94.9	95.0	95.2	95.3	95.4	95.5	95.6	95.7
24.8	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
25.0	94.7	94.8	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
25.2	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
25.4	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
25.6	94.9	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.8	95.9
25.8	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
26.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.0
26.2	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
26.4	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2
26.6	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2
26.8	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3
27.0	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3
27.2	95.5	95.6	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4
27.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4
27.6	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4	96.5
27.8	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5
28.0	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.50	10.51	10.52	10.53	10.54	10.55	10.56	10.57	10.58	10.59	10.60
28.0	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.5
28.2	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6
28.4	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6
28.6	95.9	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7
28.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.6	96.7
29.0	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8
29.2	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8
29.4	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9
29.6	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.8	96.8	96.9
29.8	96.2	96.3	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9
30.0	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0
30.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0
30.4	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8	96.9	97.0	97.1
30.6	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	97.0	97.0	97.1
30.8	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1
31.0	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2
31.2	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2
31.4	96.6	96.6	96.7	96.8	96.8	96.9	97.0	97.1	97.1	97.2	97.2
31.6	96.6	96.7	96.7	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3
31.8	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3
32.0	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3
32.2	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4
32.4	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4
32.6	96.8	96.9	97.0	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.5
32.8	96.9	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5
33.0	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5
33.2	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.5
33.4	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6
33.6	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6
33.8	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6
34.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7
34.2	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.5	97.6	97.7	97.7
34.4	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7
34.6	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8
34.8	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
35.0	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.50	10.51	10.52	10.53	10.54	10.55	10.56	10.57	10.58	10.59	10.60
35.0	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8
35.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
35.4	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
35.6	97.4	97.4	97.5	97.5	97.6	97.7	97.7	97.8	97.8	97.9	97.9
35.8	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
36.0	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
36.2	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
36.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
36.6	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
36.8	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
37.0	97.6	97.7	97.7	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.1
37.2	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
37.4	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1
37.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2
37.8	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2
38.0	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2
38.2	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2
38.4	97.8	97.9	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2
38.6	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3
38.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3
39.0	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3
39.2	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3
39.4	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4
39.6	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
39.8	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4
40.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.60	10.61	10.62	10.63	10.64	10.65	10.66	10.67	10.68	10.69	10.70
.0	76.7	77.1	77.5	77.9	78.3	78.7	79.1	79.5	79.8	80.2	80.6
.2	77.0	77.4	77.8	78.2	78.6	79.0	79.4	79.7	80.1	80.5	80.8
.4	77.3	77.7	78.1	78.5	78.9	79.3	79.6	80.0	80.4	80.7	81.1
.6	77.6	78.0	78.4	78.8	79.1	79.5	79.9	80.3	80.6	81.0	81.3
.8	77.9	78.3	78.7	79.0	79.4	79.8	80.2	80.5	80.9	81.2	81.6
1.0	78.2	78.6	78.9	79.3	79.7	80.1	80.4	80.8	81.1	81.5	81.8
1.2	78.4	78.8	79.2	79.6	80.0	80.3	80.7	81.0	81.4	81.7	82.1
1.4	78.7	79.1	79.5	79.9	80.2	80.6	81.0	81.3	81.7	82.0	82.3
1.6	79.0	79.4	79.8	80.1	80.5	80.9	81.2	81.6	81.9	82.2	82.6
1.8	79.3	79.7	80.0	80.4	80.8	81.1	81.5	81.8	82.1	82.5	82.8
2.0	79.6	79.9	80.3	80.7	81.0	81.4	81.7	82.1	82.4	82.7	83.0
2.2	79.8	80.2	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0	83.3
2.4	80.1	80.5	80.8	81.2	81.5	81.9	82.2	82.5	82.9	83.2	83.5
2.6	80.3	80.7	81.1	81.4	81.8	82.1	82.4	82.8	83.1	83.4	83.7
2.8	80.6	81.0	81.3	81.7	82.0	82.3	82.7	83.0	83.3	83.6	84.0
3.0	80.9	81.2	81.6	81.9	82.2	82.6	82.9	83.2	83.6	83.9	84.2
3.2	81.1	81.5	81.8	82.2	82.5	82.8	83.1	83.5	83.8	84.1	84.4
3.4	81.4	81.7	82.1	82.4	82.7	83.1	83.4	83.7	84.0	84.3	84.6
3.6	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9	84.2	84.5	84.8
3.8	81.9	82.2	82.5	82.9	83.2	83.5	83.8	84.1	84.4	84.7	85.0
4.0	82.1	82.4	82.8	83.1	83.4	83.7	84.0	84.4	84.7	84.9	85.2
4.2	82.3	82.7	83.0	83.3	83.6	84.0	84.3	84.6	84.9	85.2	85.4
4.4	82.6	82.9	83.2	83.5	83.9	84.2	84.5	84.8	85.1	85.4	85.6
4.6	82.8	83.1	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.8
4.8	83.0	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.0
5.0	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.2
5.2	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4
5.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.1	86.3	86.6
5.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.3	86.5	86.8
5.8	84.2	84.5	84.8	85.1	85.3	85.6	85.9	86.2	86.5	86.7	87.0
6.0	84.4	84.7	85.0	85.3	85.5	85.8	86.1	86.4	86.6	86.9	87.2
6.2	84.6	84.9	85.2	85.5	85.7	86.0	86.3	86.6	86.8	87.1	87.3
6.4	84.8	85.1	85.4	85.7	85.9	86.2	86.5	86.8	87.0	87.3	87.5
6.6	85.0	85.3	85.6	85.9	86.1	86.4	86.7	86.9	87.2	87.4	87.7
6.8	85.2	85.5	85.8	86.0	86.3	86.6	86.9	87.1	87.4	87.6	87.9
7.0	85.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0

TEMP DEG C	PH 10.60	10.61	10.62	10.63	10.64	10.65	10.66	10.67	10.68	10.69	10.70
7.0	85.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0
7.2	85.6	85.9	86.2	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2
7.4	85.8	86.1	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4
7.6	86.0	86.3	86.5	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5
7.8	86.2	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7
8.0	86.4	86.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9
8.2	86.5	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.6	88.8	89.0
8.4	86.7	87.0	87.3	87.5	87.8	88.0	88.2	88.5	88.7	88.9	89.2
8.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1	89.3
8.8	87.1	87.4	87.6	87.9	88.1	88.3	88.6	88.8	89.0	89.2	89.5
9.0	87.3	87.5	87.8	88.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6
9.2	87.4	87.7	87.9	88.2	88.4	88.7	88.9	89.1	89.3	89.5	89.8
9.4	87.6	87.9	88.1	88.3	88.6	88.8	89.0	89.3	89.5	89.7	89.9
9.6	87.8	88.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8	90.0
9.8	88.0	88.2	88.4	88.7	88.9	89.1	89.3	89.6	89.8	90.0	90.2
10.0	88.1	88.4	88.6	88.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3
10.2	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8	90.1	90.3	90.5
10.4	88.4	88.7	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4	90.6
10.6	88.6	88.8	89.1	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7
10.8	88.8	89.0	89.2	89.4	89.6	89.9	90.1	90.3	90.5	90.7	90.9
11.0	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0
11.2	89.1	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1
11.4	89.2	89.4	89.6	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.2
11.6	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4
11.8	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5
12.0	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.2	91.4	91.6
12.2	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7
12.4	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.8
12.6	90.1	90.3	90.5	90.7	90.9	91.1	91.2	91.4	91.6	91.8	92.0
12.8	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7	91.9	92.1
13.0	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0	92.2
13.2	90.5	90.7	90.9	91.1	91.2	91.4	91.6	91.8	92.0	92.1	92.3
13.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4
13.6	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3	92.5
13.8	90.9	91.1	91.2	91.4	91.6	91.8	92.0	92.1	92.3	92.4	92.6
14.0	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.6	92.7

TEMP DEG C	PH 10.60	10.61	10.62	10.63	10.64	10.65	10.66	10.67	10.68	10.69	10.70
14.0	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.6	92.7
14.2	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.7	92.8
14.4	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4	92.6	92.8	92.9
14.6	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.6	92.7	92.9	93.0
14.8	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.7	92.8	93.0	93.1
15.0	91.6	91.8	91.9	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2
15.2	91.7	91.9	92.1	92.2	92.4	92.5	92.7	92.9	93.0	93.2	93.3
15.4	91.8	92.0	92.2	92.3	92.5	92.6	92.8	93.0	93.1	93.3	93.4
15.6	91.9	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.3	93.5
15.8	92.0	92.2	92.4	92.5	92.7	92.9	93.0	93.2	93.3	93.4	93.6
16.0	92.2	92.3	92.5	92.6	92.8	93.0	93.1	93.2	93.4	93.5	93.7
16.2	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.8
16.4	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8
16.6	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8	93.9
16.8	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.8	93.9	94.0
17.0	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1
17.2	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8	93.9	94.1	94.2
17.4	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3
17.6	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.3
17.8	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4
18.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3	94.4	94.5
18.2	93.3	93.4	93.5	93.7	93.8	94.0	94.1	94.2	94.3	94.5	94.6
18.4	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.7
18.6	93.4	93.6	93.7	93.9	94.0	94.1	94.2	94.4	94.5	94.6	94.7
18.8	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8
19.0	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9
19.2	93.7	93.8	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9
19.4	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0
19.6	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.7	94.9	95.0	95.1
19.8	94.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1
20.0	94.1	94.2	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2
20.2	94.1	94.3	94.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3
20.4	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3
20.6	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4
20.8	94.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3	95.4	95.5
21.0	94.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.60	10.61	10.62	10.63	10.64	10.65	10.66	10.67	10.68	10.69	10.70
21.0	94.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5
21.2	94.5	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
21.4	94.6	94.7	94.8	94.9	95.0	95.2	95.3	95.4	95.5	95.6	95.7
21.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
21.8	94.7	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
22.0	94.8	94.9	95.0	95.1	95.2	95.4	95.5	95.6	95.6	95.7	95.8
22.2	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
22.4	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9
22.6	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
22.8	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
23.0	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.8	95.9	96.0	96.1
23.2	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2
23.4	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.2
23.6	95.3	95.5	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3
23.8	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3
24.0	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4
24.2	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4
24.4	95.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5
24.6	95.7	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5
24.8	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6
25.0	95.8	95.9	96.0	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6
25.2	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7
25.4	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.6	96.6	96.7
25.6	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7
25.8	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.6	96.7	96.8
26.0	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8
26.2	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9
26.4	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8	96.9
26.6	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.8	96.8	96.9	97.0
26.8	96.3	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0
27.0	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0
27.2	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1
27.4	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1
27.6	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2
27.8	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2
28.0	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.60	10.61	10.62	10.63	10.64	10.65	10.66	10.67	10.68	10.69	10.70
28.0	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2
28.2	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3
28.4	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.2	97.3
28.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3
28.8	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4
29.0	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4
29.2	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4
29.4	96.9	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5
29.6	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5
29.8	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.5
30.0	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6
30.2	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6
30.4	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6
30.6	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7
30.8	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.5	97.6	97.7	97.7
31.0	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7
31.2	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8
31.4	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
31.6	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
31.8	97.3	97.4	97.4	97.5	97.5	97.6	97.7	97.7	97.8	97.8	97.9
32.0	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
32.2	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
32.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
32.6	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
32.8	97.5	97.5	97.6	97.6	97.7	97.8	97.8	97.9	97.9	97.9	98.0
33.0	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
33.2	97.5	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0
33.4	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
33.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
33.8	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
34.0	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1
34.2	97.7	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.1	98.1	98.2
34.4	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2
34.6	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2
34.8	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2
35.0	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.60	10.61	10.62	10.63	10.64	10.65	10.66	10.67	10.68	10.69	10.70
35.0	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3
35.2	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3
35.4	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3
35.6	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3
35.8	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.3
36.0	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
36.2	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4
36.4	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4
36.6	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4
36.8	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5
37.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5
37.2	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5
37.4	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5
37.6	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
37.8	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
38.0	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
38.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6
38.4	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
38.6	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
38.8	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
39.0	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
39.2	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
39.4	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
39.6	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
39.8	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
40.0	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.7

TEMP DEG C	PH 10.70	10.71	10.72	10.73	10.74	10.75	10.76	10.77	10.78	10.79	10.80
.0	80.6	80.9	81.3	81.6	82.0	82.3	82.6	83.0	83.3	83.6	83.9
.2	80.8	81.2	81.5	81.9	82.2	82.5	82.9	83.2	83.5	83.8	84.1
.4	81.1	81.4	81.8	82.1	82.5	82.8	83.1	83.4	83.7	84.1	84.4
.6	81.3	81.7	82.0	82.4	82.7	83.0	83.3	83.7	84.0	84.3	84.6
.8	81.6	81.9	82.3	82.6	82.9	83.3	83.6	83.9	84.2	84.5	84.8
1.0	81.8	82.2	82.5	82.8	83.2	83.5	83.8	84.1	84.4	84.7	85.0
1.2	82.1	82.4	82.8	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2
1.4	82.3	82.7	83.0	83.3	83.6	83.9	84.3	84.6	84.9	85.1	85.4
1.6	82.6	82.9	83.2	83.5	83.9	84.2	84.5	84.8	85.1	85.4	85.6
1.8	82.8	83.1	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.8
2.0	83.0	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.0
2.2	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.2
2.4	83.5	83.8	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4
2.6	83.7	84.0	84.4	84.7	84.9	85.2	85.5	85.8	86.1	86.4	86.6
2.8	84.0	84.3	84.6	84.9	85.2	85.4	85.7	86.0	86.3	86.6	86.8
3.0	84.2	84.5	84.8	85.1	85.4	85.7	85.9	86.2	86.5	86.7	87.0
3.2	84.4	84.7	85.0	85.3	85.6	85.9	86.1	86.4	86.7	86.9	87.2
3.4	84.6	84.9	85.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1	87.4
3.6	84.8	85.1	85.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.6
3.8	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0	87.2	87.5	87.7
4.0	85.2	85.5	85.8	86.1	86.4	86.6	86.9	87.2	87.4	87.7	87.9
4.2	85.4	85.7	86.0	86.3	86.6	86.8	87.1	87.3	87.6	87.8	88.1
4.4	85.6	85.9	86.2	86.5	86.7	87.0	87.3	87.5	87.8	88.0	88.3
4.6	85.8	86.1	86.4	86.7	86.9	87.2	87.4	87.7	87.9	88.2	88.4
4.8	86.0	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4	88.6
5.0	86.2	86.5	86.8	87.0	87.3	87.5	87.8	88.0	88.3	88.5	88.7
5.2	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.4	88.7	88.9
5.4	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1
5.6	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2
5.8	87.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9	89.2	89.4
6.0	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1	89.3	89.5
6.2	87.3	87.6	87.8	88.1	88.3	88.6	88.8	89.0	89.2	89.5	89.7
6.4	87.5	87.8	88.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8
6.6	87.7	87.9	88.2	88.4	88.7	88.9	89.1	89.3	89.6	89.8	90.0
6.8	87.9	88.1	88.4	88.6	88.8	89.0	89.3	89.5	89.7	89.9	90.1
7.0	88.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8	90.1	90.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.70	10.71	10.72	10.73	10.74	10.75	10.76	10.77	10.78	10.79	10.80
7.0	88.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8	90.1	90.3
7.2	88.2	88.4	88.7	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4
7.4	88.4	88.6	88.8	89.1	89.3	89.5	89.7	89.9	90.1	90.3	90.5
7.6	88.5	88.8	89.0	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7
7.8	88.7	88.9	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8
8.0	88.9	89.1	89.3	89.5	89.7	89.9	90.2	90.4	90.6	90.7	90.9
8.2	89.0	89.2	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1
8.4	89.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2
8.6	89.3	89.5	89.7	90.0	90.2	90.4	90.6	90.8	91.0	91.1	91.3
8.8	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.4
9.0	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.6
9.2	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.3	91.5	91.7
9.4	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.6	91.8
9.6	90.0	90.3	90.5	90.6	90.8	91.0	91.2	91.4	91.6	91.8	91.9
9.8	90.2	90.4	90.6	90.8	91.0	91.2	91.3	91.5	91.7	91.9	92.0
10.0	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.6	91.8	92.0	92.2
10.2	90.5	90.7	90.9	91.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3
10.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4
10.6	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3	92.5
10.8	90.9	91.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4	92.6
11.0	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.5	92.7
11.2	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.7	92.8
11.4	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4	92.6	92.8	92.9
11.6	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.6	92.7	92.9	93.0
11.8	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.7	92.8	93.0	93.1
12.0	91.6	91.8	92.0	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2
12.2	91.7	91.9	92.1	92.2	92.4	92.6	92.7	92.9	93.0	93.2	93.3
12.4	91.8	92.0	92.2	92.3	92.5	92.7	92.8	93.0	93.1	93.3	93.4
12.6	92.0	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.4	93.5
12.8	92.1	92.2	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6
13.0	92.2	92.3	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.5	93.7
13.2	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8
13.4	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9
13.6	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.5	93.7	93.8	94.0
13.8	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0
14.0	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1

TEMP DEG C	PH 10.70	10.71	10.72	10.73	10.74	10.75	10.76	10.77	10.78	10.79	10.80
14.0	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1
14.2	92.8	93.0	93.1	93.3	93.4	93.5	93.7	93.8	93.9	94.1	94.2
14.4	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3
14.6	93.0	93.2	93.3	93.4	93.6	93.7	93.9	94.0	94.1	94.2	94.4
14.8	93.1	93.3	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4
15.0	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5
15.2	93.3	93.4	93.6	93.7	93.9	94.0	94.1	94.2	94.4	94.5	94.6
15.4	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7
15.6	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.6	94.8
15.8	93.6	93.7	93.9	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8
16.0	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9
16.2	93.8	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.8	94.9	95.0
16.4	93.8	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.0
16.6	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0	95.1
16.8	94.0	94.1	94.3	94.4	94.5	94.6	94.7	94.9	95.0	95.1	95.2
17.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.3
17.2	94.2	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3
17.4	94.3	94.4	94.5	94.6	94.7	94.9	95.0	95.1	95.2	95.3	95.4
17.6	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.4	95.5
17.8	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5
18.0	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3	95.4	95.5	95.6
18.2	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
18.4	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
18.6	94.7	94.8	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
18.8	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
19.0	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
19.2	94.9	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.8	95.9
19.4	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
19.6	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
19.8	95.1	95.3	95.4	95.5	95.6	95.7	95.7	95.8	95.9	96.0	96.1
20.0	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2
20.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.2
20.4	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3
20.6	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3
20.8	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4
21.0	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.70	10.71	10.72	10.73	10.74	10.75	10.76	10.77	10.78	10.79	10.80
21.0	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4
21.2	95.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5
21.4	95.7	95.8	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5
21.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6
21.8	95.8	95.9	96.0	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6
22.0	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7
22.2	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7
22.4	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8
22.6	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7	96.7	96.8
22.8	96.1	96.1	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8
23.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9
23.2	96.2	96.3	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9
23.4	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0
23.6	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0
23.8	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1
24.0	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1
24.2	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1
24.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2
24.6	96.5	96.6	96.7	96.7	96.8	96.9	97.0	97.0	97.1	97.2	97.2
24.8	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3
25.0	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3
25.2	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3
25.4	96.7	96.8	96.8	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4
25.6	96.7	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4
25.8	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4
26.0	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5
26.2	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5
26.4	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5
26.6	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6
26.8	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.5	97.6
27.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6
27.2	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7
27.4	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7
27.6	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7
27.8	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8
28.0	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.70	10.71	10.72	10.73	10.74	10.75	10.76	10.77	10.78	10.79	10.80
28.0	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
28.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8
28.4	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.8	97.8	97.9
28.6	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
28.8	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
29.0	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
29.2	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
29.4	97.5	97.5	97.6	97.6	97.7	97.8	97.8	97.8	97.9	97.9	98.0
29.6	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
29.8	97.5	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0
30.0	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
30.2	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
30.4	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
30.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1
30.8	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2
31.0	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2
31.2	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2
31.4	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2
31.6	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3
31.8	97.9	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3
32.0	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3
32.2	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3
32.4	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4
32.6	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
32.8	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4
33.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4
33.2	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4
33.4	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5
33.6	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5
33.8	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
34.0	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5
34.2	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
34.4	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6
34.6	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
34.8	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
35.0	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.70	10.71	10.72	10.73	10.74	10.75	10.76	10.77	10.78	10.79	10.80
35.0	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
35.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
35.4	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6
35.6	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
35.8	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
36.0	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
36.2	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
36.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
36.6	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8
36.8	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.8
37.0	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
37.2	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8
37.4	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
37.6	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8
37.8	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
38.0	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9
38.2	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
38.4	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
38.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
38.8	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
39.0	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
39.2	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
39.4	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
39.6	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
39.8	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
40.0	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.80	10.81	10.82	10.83	10.84	10.85	10.86	10.87	10.88	10.89	10.90
.0	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.2	86.5	86.8
.2	84.1	84.4	84.7	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0
.4	84.4	84.7	85.0	85.3	85.5	85.8	86.1	86.4	86.6	86.9	87.2
.6	84.6	84.9	85.2	85.5	85.7	86.0	86.3	86.6	86.8	87.1	87.4
.8	84.8	85.1	85.4	85.7	86.0	86.2	86.5	86.8	87.0	87.3	87.5
1.0	85.0	85.3	85.6	85.9	86.2	86.4	86.7	87.0	87.2	87.5	87.7
1.2	85.2	85.5	85.8	86.1	86.3	86.6	86.9	87.1	87.4	87.7	87.9
1.4	85.4	85.7	86.0	86.3	86.5	86.8	87.1	87.3	87.6	87.8	88.1
1.6	85.6	85.9	86.2	86.5	86.7	87.0	87.3	87.5	87.8	88.0	88.2
1.8	85.8	86.1	86.4	86.7	86.9	87.2	87.4	87.7	87.9	88.2	88.4
2.0	86.0	86.3	86.6	86.9	87.1	87.4	87.6	87.9	88.1	88.4	88.6
2.2	86.2	86.5	86.8	87.0	87.3	87.6	87.8	88.0	88.3	88.5	88.8
2.4	86.4	86.7	87.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9
2.6	86.6	86.9	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1
2.8	86.8	87.1	87.3	87.6	87.8	88.1	88.3	88.6	88.8	89.0	89.2
3.0	87.0	87.3	87.5	87.8	88.0	88.3	88.5	88.7	89.0	89.2	89.4
3.2	87.2	87.4	87.7	87.9	88.2	88.4	88.7	88.9	89.1	89.3	89.6
3.4	87.4	87.6	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5	89.7
3.6	87.6	87.8	88.0	88.3	88.5	88.8	89.0	89.2	89.4	89.6	89.9
3.8	87.7	88.0	88.2	88.5	88.7	88.9	89.1	89.4	89.6	89.8	90.0
4.0	87.9	88.2	88.4	88.6	88.9	89.1	89.3	89.5	89.7	89.9	90.2
4.2	88.1	88.3	88.6	88.8	89.0	89.2	89.5	89.7	89.9	90.1	90.3
4.4	88.3	88.5	88.7	88.9	89.2	89.4	89.6	89.8	90.0	90.2	90.4
4.6	88.4	88.7	88.9	89.1	89.3	89.5	89.8	90.0	90.2	90.4	90.6
4.8	88.6	88.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7
5.0	88.7	89.0	89.2	89.4	89.6	89.8	90.1	90.3	90.5	90.7	90.9
5.2	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0
5.4	89.1	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1
5.6	89.2	89.4	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.2
5.8	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4
6.0	89.5	89.7	90.0	90.2	90.4	90.6	90.8	90.9	91.1	91.3	91.5
6.2	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.4	91.6
6.4	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.7
6.6	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.3	91.5	91.7	91.9
6.8	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.6	91.8	92.0
7.0	90.3	90.5	90.7	90.9	91.0	91.2	91.4	91.6	91.8	91.9	92.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.80	10.81	10.82	10.83	10.84	10.85	10.86	10.87	10.88	10.89	10.90
7.0	90.3	90.5	90.7	90.9	91.0	91.2	91.4	91.6	91.8	91.9	92.1
7.2	90.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2
7.4	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3
7.6	90.7	90.9	91.1	91.2	91.4	91.6	91.8	92.0	92.1	92.3	92.4
7.8	90.8	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.6
8.0	90.9	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.7
8.2	91.1	91.3	91.4	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8
8.4	91.2	91.4	91.6	91.7	91.9	92.1	92.2	92.4	92.6	92.7	92.9
8.6	91.3	91.5	91.7	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0
8.8	91.4	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1
9.0	91.6	91.7	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.0	93.2
9.2	91.7	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3
9.4	91.8	92.0	92.2	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4
9.6	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5
9.8	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6
10.0	92.2	92.3	92.5	92.6	92.8	93.0	93.1	93.2	93.4	93.5	93.7
10.2	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.3	93.5	93.6	93.8
10.4	92.4	92.5	92.7	92.9	93.0	93.2	93.3	93.4	93.6	93.7	93.9
10.6	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.5	93.7	93.8	93.9
10.8	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0
11.0	92.7	92.9	93.0	93.2	93.3	93.4	93.6	93.7	93.9	94.0	94.1
11.2	92.8	93.0	93.1	93.3	93.4	93.5	93.7	93.8	93.9	94.1	94.2
11.4	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3
11.6	93.0	93.2	93.3	93.4	93.6	93.7	93.9	94.0	94.1	94.2	94.4
11.8	93.1	93.3	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.5
12.0	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5
12.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.2	94.4	94.5	94.6
12.4	93.4	93.5	93.7	93.8	94.0	94.1	94.2	94.3	94.5	94.6	94.7
12.6	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.7	94.8
12.8	93.6	93.7	93.9	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8
13.0	93.7	93.8	94.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8	94.9
13.2	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.7	94.8	94.9	95.0
13.4	93.9	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	95.0	95.1
13.6	94.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1
13.8	94.0	94.2	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2
14.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.80	10.81	10.82	10.83	10.84	10.85	10.86	10.87	10.88	10.89	10.90
14.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3
14.2	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3
14.4	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4
14.6	94.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3	95.4	95.5
14.8	94.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5
15.0	94.5	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
15.2	94.6	94.7	94.8	94.9	95.1	95.2	95.3	95.4	95.5	95.6	95.7
15.4	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
15.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
15.8	94.8	94.9	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
16.0	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
16.2	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
16.4	95.0	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.8	95.9	96.0
16.6	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
16.8	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.1
17.0	95.3	95.4	95.5	95.6	95.7	95.7	95.8	95.9	96.0	96.1	96.2
17.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2
17.4	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.2	96.3
17.6	95.5	95.6	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4
17.8	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4
18.0	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.2	96.3	96.4	96.5
18.2	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5
18.4	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6
18.6	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6
18.8	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7
19.0	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.6	96.6	96.7
19.2	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7
19.4	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.6	96.7	96.8
19.6	96.1	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8
19.8	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9
20.0	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9
20.2	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0
20.4	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0
20.6	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1
20.8	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1
21.0	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.80	10.81	10.82	10.83	10.84	10.85	10.86	10.87	10.88	10.89	10.90
21.0	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1
21.2	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2
21.4	96.5	96.6	96.7	96.7	96.8	96.9	97.0	97.0	97.1	97.2	97.2
21.6	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3
21.8	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3
22.0	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3
22.2	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4
22.4	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4
22.6	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4
22.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5
23.0	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5
23.2	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.5
23.4	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6
23.6	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6
23.8	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6
24.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7
24.2	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7
24.4	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7
24.6	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
24.8	97.3	97.3	97.4	97.4	97.5	97.5	97.6	97.7	97.7	97.8	97.8
25.0	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
25.2	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
25.4	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
25.6	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
25.8	97.4	97.5	97.5	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
26.0	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
26.2	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
26.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
26.6	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
26.8	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1
27.0	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
27.2	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1
27.4	97.7	97.8	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2
27.6	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2
27.8	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2
28.0	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.80	10.81	10.82	10.83	10.84	10.85	10.86	10.87	10.88	10.89	10.90
28.0	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2
28.2	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3
28.4	97.9	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3
28.6	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3
28.8	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3
29.0	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4
29.2	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
29.4	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4
29.6	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4
29.8	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4
30.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5
30.2	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5
30.4	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
30.6	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5
30.8	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
31.0	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
31.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
31.4	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
31.6	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
31.8	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
32.0	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
32.2	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
32.4	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
32.6	98.4	98.4	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7
32.8	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
33.0	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7
33.2	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8
33.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8
33.6	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
33.8	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8
34.0	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
34.2	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
34.4	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9
34.6	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
34.8	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9
35.0	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.80	10.81	10.82	10.83	10.84	10.85	10.86	10.87	10.88	10.89	10.90
35.0	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
35.2	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
35.4	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
35.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
35.8	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
36.0	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
36.2	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
36.4	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
36.6	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
36.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
37.0	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
37.2	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
37.4	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1
37.6	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1
37.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
38.0	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1
38.2	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1
38.4	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
38.6	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
38.8	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
39.0	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
39.2	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
39.4	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
39.6	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
39.8	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2
40.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.90	10.91	10.92	10.93	10.94	10.95	10.96	10.97	10.98	10.99	11.00
.0	86.8	87.0	87.3	87.6	87.8	88.1	88.3	88.5	88.8	89.0	89.2
.2	87.0	87.2	87.5	87.7	88.0	88.2	88.5	88.7	88.9	89.2	89.4
.4	87.2	87.4	87.7	87.9	88.2	88.4	88.6	88.9	89.1	89.3	89.5
.6	87.4	87.6	87.9	88.1	88.3	88.6	88.8	89.0	89.3	89.5	89.7
.8	87.5	87.8	88.0	88.3	88.5	88.7	89.0	89.2	89.4	89.6	89.8
1.0	87.7	88.0	88.2	88.4	88.7	88.9	89.1	89.4	89.6	89.8	90.0
1.2	87.9	88.1	88.4	88.6	88.8	89.1	89.3	89.5	89.7	89.9	90.1
1.4	88.1	88.3	88.5	88.8	89.0	89.2	89.5	89.7	89.9	90.1	90.3
1.6	88.2	88.5	88.7	88.9	89.2	89.4	89.6	89.8	90.0	90.2	90.4
1.8	88.4	88.7	88.9	89.1	89.3	89.5	89.8	90.0	90.2	90.4	90.6
2.0	88.6	88.8	89.0	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7
2.2	88.8	89.0	89.2	89.4	89.6	89.9	90.1	90.3	90.5	90.7	90.9
2.4	88.9	89.1	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0
2.6	89.1	89.3	89.5	89.7	89.9	90.2	90.4	90.6	90.7	90.9	91.1
2.8	89.2	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3
3.0	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4
3.2	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.3	91.5
3.4	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.6
3.6	89.9	90.1	90.3	90.5	90.7	90.9	91.0	91.2	91.4	91.6	91.8
3.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7	91.9
4.0	90.2	90.4	90.6	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0
4.2	90.3	90.5	90.7	90.9	91.1	91.3	91.4	91.6	91.8	92.0	92.1
4.4	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.7	91.9	92.1	92.3
4.6	90.6	90.8	91.0	91.2	91.3	91.5	91.7	91.9	92.0	92.2	92.4
4.8	90.7	90.9	91.1	91.3	91.5	91.6	91.8	92.0	92.2	92.3	92.5
5.0	90.9	91.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4	92.6
5.2	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.5	92.7
5.4	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.7	92.8
5.6	91.2	91.4	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9
5.8	91.4	91.6	91.7	91.9	92.1	92.2	92.4	92.6	92.7	92.9	93.0
6.0	91.5	91.7	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1
6.2	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1	93.2
6.4	91.7	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3
6.6	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4
6.8	92.0	92.2	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5
7.0	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.3	93.5	93.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.90	10.91	10.92	10.93	10.94	10.95	10.96	10.97	10.98	10.99	11.00
7.0	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.3	93.5	93.6
7.2	92.2	92.4	92.5	92.7	92.9	93.0	93.2	93.3	93.4	93.6	93.7
7.4	92.3	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.5	93.7	93.8
7.6	92.4	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9
7.8	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0
8.0	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1
8.2	92.8	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2
8.4	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3
8.6	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.3
8.8	93.1	93.2	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4
9.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3	94.4	94.5
9.2	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.4	94.5	94.6
9.4	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7
9.6	93.5	93.6	93.8	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.8
9.8	93.6	93.7	93.8	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8
10.0	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9
10.2	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9	95.0
10.4	93.9	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.1
10.6	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0	95.1
10.8	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1	95.2
11.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.1	95.2	95.3
11.2	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3
11.4	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4
11.6	94.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3	95.4	95.5
11.8	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5
12.0	94.5	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
12.2	94.6	94.7	94.8	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
12.4	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
12.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
12.8	94.8	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
13.0	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
13.2	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
13.4	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9	96.0
13.6	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
13.8	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2
14.0	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.90	10.91	10.92	10.93	10.94	10.95	10.96	10.97	10.98	10.99	11.00
14.0	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2
14.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3
14.4	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3
14.6	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4
14.8	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4
15.0	95.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5
15.2	95.7	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5
15.4	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6
15.6	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.6	96.6
15.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7
16.0	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.6	96.7
16.2	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8
16.4	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8
16.6	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9
16.8	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9
17.0	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	97.0
17.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0
17.4	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0
17.6	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1
17.8	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1
18.0	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2
18.2	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2
18.4	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.2
18.6	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3
18.8	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3
19.0	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4
19.2	96.7	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4
19.4	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4
19.6	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5
19.8	96.9	97.0	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.5	97.5
20.0	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.5
20.2	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6
20.4	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6
20.6	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6
20.8	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7
21.0	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.90	10.91	10.92	10.93	10.94	10.95	10.96	10.97	10.98	10.99	11.00
21.0	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7
21.2	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7
21.4	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
21.6	97.3	97.3	97.4	97.4	97.5	97.5	97.6	97.7	97.7	97.8	97.8
21.8	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
22.0	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
22.2	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.8	97.8	97.9	97.9
22.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
22.6	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
22.8	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
23.0	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
23.2	97.5	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0
23.4	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
23.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
23.8	97.6	97.7	97.8	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
24.0	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1
24.2	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2
24.4	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2
24.6	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2
24.8	97.8	97.9	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2
25.0	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3
25.2	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3
25.4	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3
25.6	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3
25.8	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
26.0	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4
26.2	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4
26.4	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4
26.6	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5
26.8	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5
27.0	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
27.2	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5
27.4	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
27.6	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6
27.8	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
28.0	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.90	10.91	10.92	10.93	10.94	10.95	10.96	10.97	10.98	10.99	11.00
28.0	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
28.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
28.4	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
28.6	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
28.8	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
29.0	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
29.2	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
29.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
29.6	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7
29.8	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8
30.0	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8
30.2	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
30.4	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
30.6	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
30.8	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
31.0	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9
31.2	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
31.4	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9
31.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
31.8	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
32.0	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
32.2	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	99.0
32.4	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
32.6	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	99.0	99.0
32.8	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
33.0	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
33.2	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
33.4	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
33.6	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
33.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
34.0	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1
34.2	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
34.4	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1
34.6	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1
34.8	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1
35.0	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 10.90	10.91	10.92	10.93	10.94	10.95	10.96	10.97	10.98	10.99	11.00
35.0	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
35.2	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
35.4	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
35.6	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
35.8	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
36.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
36.2	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
36.4	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
36.6	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
36.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
37.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
37.2	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
37.4	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
37.6	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
37.8	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
38.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3
38.2	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
38.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
38.6	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
38.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
39.0	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
39.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
39.4	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
39.6	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
39.8	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
40.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.00	11.01	11.02	11.03	11.04	11.05	11.06	11.07	11.08	11.09	11.10
.0	89.2	89.4	89.6	89.9	90.1	90.3	90.5	90.7	90.9	91.0	91.2
.2	89.4	89.6	89.8	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4
.4	89.5	89.7	90.0	90.2	90.4	90.6	90.8	90.9	91.1	91.3	91.5
.6	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.6
.8	89.8	90.0	90.3	90.5	90.7	90.8	91.0	91.2	91.4	91.6	91.8
1.0	90.0	90.2	90.4	90.6	90.8	91.0	91.2	91.4	91.5	91.7	91.9
1.2	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.8	92.0
1.4	90.3	90.5	90.7	90.9	91.1	91.3	91.4	91.6	91.8	92.0	92.1
1.6	90.4	90.6	90.8	91.0	91.2	91.4	91.6	91.7	91.9	92.1	92.2
1.8	90.6	90.8	91.0	91.1	91.3	91.5	91.7	91.9	92.0	92.2	92.4
2.0	90.7	90.9	91.1	91.3	91.5	91.6	91.8	92.0	92.2	92.3	92.5
2.2	90.9	91.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4	92.6
2.4	91.0	91.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.6	92.7
2.6	91.1	91.3	91.5	91.7	91.8	92.0	92.2	92.3	92.5	92.7	92.8
2.8	91.3	91.4	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9
3.0	91.4	91.6	91.7	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.0
3.2	91.5	91.7	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1
3.4	91.6	91.8	92.0	92.2	92.3	92.5	92.6	92.8	93.0	93.1	93.2
3.6	91.8	91.9	92.1	92.3	92.4	92.6	92.8	92.9	93.1	93.2	93.4
3.8	91.9	92.1	92.2	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5
4.0	92.0	92.2	92.3	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6
4.2	92.1	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6
4.4	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7
4.6	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8
4.8	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8	93.9
5.0	92.6	92.7	92.9	93.1	93.2	93.3	93.5	93.6	93.8	93.9	94.0
5.2	92.7	92.9	93.0	93.2	93.3	93.4	93.6	93.7	93.9	94.0	94.1
5.4	92.8	93.0	93.1	93.3	93.4	93.5	93.7	93.8	93.9	94.1	94.2
5.6	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3
5.8	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3	94.4
6.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.3	94.5
6.2	93.2	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.5
6.4	93.3	93.5	93.6	93.8	93.9	94.0	94.1	94.3	94.4	94.5	94.6
6.6	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.4	94.5	94.6	94.7
6.8	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8
7.0	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.00	11.01	11.02	11.03	11.04	11.05	11.06	11.07	11.08	11.09	11.10
7.0	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9
7.2	93.7	93.9	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9
7.4	93.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0
7.6	93.9	94.0	94.2	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1
7.8	94.0	94.1	94.3	94.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2
8.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2
8.2	94.2	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3
8.4	94.3	94.4	94.5	94.6	94.7	94.9	95.0	95.1	95.2	95.3	95.4
8.6	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.3	95.4	95.5
8.8	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5
9.0	94.5	94.6	94.7	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
9.2	94.6	94.7	94.8	94.9	95.0	95.2	95.3	95.4	95.5	95.6	95.7
9.4	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
9.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
9.8	94.8	94.9	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.8
10.0	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
10.2	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
10.4	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9	96.0
10.6	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
10.8	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.1
11.0	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2
11.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3
11.4	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3
11.6	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4
11.8	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4
12.0	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5
12.2	95.7	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.5
12.4	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6
12.6	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6
12.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7
13.0	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7	96.7
13.2	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8
13.4	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8
13.6	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7	96.7	96.8	96.9
13.8	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9
14.0	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.00	11.01	11.02	11.03	11.04	11.05	11.06	11.07	11.08	11.09	11.10
14.0	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0
14.2	96.3	96.3	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0
14.4	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8	96.9	97.0	97.1
14.6	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1
14.8	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1
15.0	96.5	96.6	96.6	96.7	96.8	96.8	96.9	97.0	97.1	97.1	97.2
15.2	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2
15.4	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3
15.6	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3
15.8	96.7	96.7	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3
16.0	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4
16.2	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4
16.4	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5
16.6	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5
16.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5
17.0	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6
17.2	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.5	97.6
17.4	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6
17.6	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7
17.8	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7
18.0	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7
18.2	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8
18.4	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
18.6	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
18.8	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
19.0	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
19.2	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
19.4	97.4	97.5	97.5	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
19.6	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
19.8	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
20.0	97.5	97.6	97.7	97.7	97.8	97.8	97.9	97.9	97.9	98.0	98.0
20.2	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
20.4	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
20.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
20.8	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1
21.0	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.00	11.01	11.02	11.03	11.04	11.05	11.06	11.07	11.08	11.09	11.10
21.0	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2
21.2	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2
21.4	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2
21.6	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3
21.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3
22.0	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3
22.2	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3
22.4	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3
22.6	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
22.8	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4
23.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4
23.2	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4
23.4	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5
23.6	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5
23.8	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
24.0	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5
24.2	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
24.4	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
24.6	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.6	98.6
24.8	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
25.0	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
25.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
25.4	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
25.6	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.7
25.8	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
26.0	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
26.2	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
26.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8
26.6	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8
26.8	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
27.0	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8
27.2	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
27.4	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
27.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8
27.8	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
28.0	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.00	11.01	11.02	11.03	11.04	11.05	11.06	11.07	11.08	11.09	11.10
28.0	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9
28.2	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
28.4	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
28.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
28.8	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
29.0	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
29.2	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
29.4	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
29.6	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
29.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
30.0	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
30.2	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
30.4	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
30.6	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1
30.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
31.0	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1
31.2	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1
31.4	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1
31.6	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
31.8	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
32.0	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
32.2	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
32.4	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
32.6	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
32.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
33.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
33.2	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
33.4	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
33.6	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
33.8	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
34.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
34.2	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3
34.4	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
34.6	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3
34.8	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
35.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.00	11.01	11.02	11.03	11.04	11.05	11.06	11.07	11.08	11.09	11.10
35.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
35.2	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
35.4	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
35.6	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
35.8	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
36.0	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
36.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
36.4	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4
36.6	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
36.8	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
37.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
37.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
37.4	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
37.6	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
37.8	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
38.0	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
38.2	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
38.4	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
38.6	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
38.8	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
39.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
39.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
39.4	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
39.6	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
39.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
40.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5

TEMP DEG C	PH 11.10	11.11	11.12	11.13	11.14	11.15	11.16	11.17	11.18	11.19	11.20
.0	91.2	91.4	91.6	91.8	91.9	92.1	92.3	92.4	92.6	92.8	92.9
.2	91.4	91.5	91.7	91.9	92.1	92.2	92.4	92.6	92.7	92.9	93.0
.4	91.5	91.7	91.9	92.0	92.2	92.4	92.5	92.7	92.8	93.0	93.1
.6	91.6	91.8	92.0	92.1	92.3	92.5	92.6	92.8	92.9	93.1	93.2
.8	91.8	91.9	92.1	92.3	92.4	92.6	92.7	92.9	93.0	93.2	93.3
1.0	91.9	92.1	92.2	92.4	92.5	92.7	92.9	93.0	93.2	93.3	93.4
1.2	92.0	92.2	92.3	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.5
1.4	92.1	92.3	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.6
1.6	92.2	92.4	92.6	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7
1.8	92.4	92.5	92.7	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8
2.0	92.5	92.6	92.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8	93.9
2.2	92.6	92.8	92.9	93.1	93.2	93.3	93.5	93.6	93.8	93.9	94.0
2.4	92.7	92.9	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1
2.6	92.8	93.0	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2
2.8	92.9	93.1	93.2	93.4	93.5	93.7	93.8	93.9	94.0	94.2	94.3
3.0	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3	94.4
3.2	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.4	94.5
3.4	93.2	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6
3.6	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.6
3.8	93.5	93.6	93.7	93.9	94.0	94.1	94.2	94.4	94.5	94.6	94.7
4.0	93.6	93.7	93.8	94.0	94.1	94.2	94.3	94.5	94.6	94.7	94.8
4.2	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.7	94.8	94.9
4.4	93.7	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.7	94.9	95.0
4.6	93.8	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.0
4.8	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0	95.1
5.0	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1	95.2
5.2	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.1	95.2	95.3
5.4	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3
5.6	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4
5.8	94.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3	95.4	95.5
6.0	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.4	95.5	95.6
6.2	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
6.4	94.6	94.7	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
6.6	94.7	94.8	94.9	95.0	95.2	95.3	95.4	95.5	95.6	95.7	95.8
6.8	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
7.0	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.10	11.11	11.12	11.13	11.14	11.15	11.16	11.17	11.18	11.19	11.20
7.0	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
7.2	94.9	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9
7.4	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
7.6	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
7.8	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.0	96.1
8.0	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2
8.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2
8.4	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.2	96.3
8.6	95.5	95.6	95.7	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4
8.8	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4
9.0	95.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5
9.2	95.7	95.8	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5
9.4	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6
9.6	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.5	96.6
9.8	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7
10.0	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7	96.7
10.2	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8
10.4	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.8	96.8
10.6	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7	96.7	96.8	96.9
10.8	96.1	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8	96.9
11.0	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0
11.2	96.3	96.3	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0
11.4	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8	96.9	97.0	97.1
11.6	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1
11.8	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1
12.0	96.5	96.6	96.6	96.7	96.8	96.8	96.9	97.0	97.1	97.1	97.2
12.2	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2
12.4	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3
12.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.2	97.3
12.8	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3
13.0	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4
13.2	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4
13.4	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5
13.6	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5
13.8	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5
14.0	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.10	11.11	11.12	11.13	11.14	11.15	11.16	11.17	11.18	11.19	11.20
14.0	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6
14.2	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6
14.4	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6
14.6	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7
14.8	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7
15.0	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7
15.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
15.4	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8
15.6	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
15.8	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
16.0	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
16.2	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
16.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
16.6	97.5	97.5	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
16.8	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
17.0	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
17.2	97.6	97.7	97.7	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.1
17.4	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
17.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1
17.8	97.7	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.1	98.1	98.2
18.0	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2
18.2	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2
18.4	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2
18.6	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3
18.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3
19.0	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3
19.2	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3
19.4	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
19.6	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4
19.8	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4
20.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4
20.2	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5
20.4	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5
20.6	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
20.8	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5
21.0	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.10	11.11	11.12	11.13	11.14	11.15	11.16	11.17	11.18	11.19	11.20
21.0	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
21.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
21.4	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6
21.6	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
21.8	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
22.0	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
22.2	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
22.4	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
22.6	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
22.8	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
23.0	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.7
23.2	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8
23.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8
23.6	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
23.8	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
24.0	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8
24.2	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
24.4	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9
24.6	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
24.8	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
25.0	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9
25.2	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
25.4	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
25.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
25.8	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
26.0	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
26.2	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
26.4	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
26.6	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
26.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
27.0	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
27.2	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1
27.4	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1
27.6	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
27.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1
28.0	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.10	11.11	11.12	11.13	11.14	11.15	11.16	11.17	11.18	11.19	11.20
28.0	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1
28.2	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
28.4	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
28.6	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
28.8	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
29.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
29.2	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
29.4	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2
29.6	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
29.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
30.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
30.2	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
30.4	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
30.6	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
30.8	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3
31.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
31.2	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3
31.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
31.6	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
31.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
32.0	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
32.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
32.4	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
32.6	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
32.8	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
33.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4
33.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
33.4	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
33.6	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
33.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
34.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
34.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
34.4	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
34.6	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
34.8	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
35.0	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.10	11.11	11.12	11.13	11.14	11.15	11.16	11.17	11.18	11.19	11.20
35.0	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
35.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
35.4	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
35.6	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
35.8	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
36.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
36.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
36.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
36.6	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
36.8	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
37.0	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
37.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
37.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
37.6	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
37.8	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
38.0	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
38.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
38.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
38.6	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
38.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
39.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
39.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
39.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
39.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
39.8	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
40.0	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.20	11.21	11.22	11.23	11.24	11.25	11.26	11.27	11.28	11.29	11.30
.0	92.9	93.1	93.2	93.4	93.5	93.6	93.8	93.9	94.0	94.2	94.3
.2	93.0	93.2	93.3	93.5	93.6	93.7	93.9	94.0	94.1	94.3	94.4
.4	93.1	93.3	93.4	93.6	93.7	93.8	94.0	94.1	94.2	94.3	94.5
.6	93.2	93.4	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.4	94.6
.8	93.3	93.5	93.6	93.8	93.9	94.0	94.1	94.3	94.4	94.5	94.6
1.0	93.4	93.6	93.7	93.9	94.0	94.1	94.2	94.4	94.5	94.6	94.7
1.2	93.5	93.7	93.8	93.9	94.1	94.2	94.3	94.5	94.6	94.7	94.8
1.4	93.6	93.8	93.9	94.0	94.2	94.3	94.4	94.5	94.7	94.8	94.9
1.6	93.7	93.9	94.0	94.1	94.3	94.4	94.5	94.6	94.7	94.9	95.0
1.8	93.8	94.0	94.1	94.2	94.4	94.5	94.6	94.7	94.8	94.9	95.0
2.0	93.9	94.1	94.2	94.3	94.4	94.6	94.7	94.8	94.9	95.0	95.1
2.2	94.0	94.2	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1	95.2
2.4	94.1	94.2	94.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3
2.6	94.2	94.3	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3
2.8	94.3	94.4	94.5	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4
3.0	94.4	94.5	94.6	94.7	94.9	95.0	95.1	95.2	95.3	95.4	95.5
3.2	94.5	94.6	94.7	94.8	94.9	95.0	95.2	95.3	95.4	95.5	95.6
3.4	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
3.6	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
3.8	94.7	94.8	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
4.0	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
4.2	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
4.4	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
4.6	95.0	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.8	95.9	96.0
4.8	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
5.0	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.1
5.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2
5.4	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3
5.6	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3
5.8	95.5	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.2	96.3	96.4
6.0	95.6	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4
6.2	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5
6.4	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.5
6.6	95.8	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6
6.8	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.6
7.0	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.6	96.6	96.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.20	11.21	11.22	11.23	11.24	11.25	11.26	11.27	11.28	11.29	11.30
7.0	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.6	96.6	96.7
7.2	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.8
7.4	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7	96.7	96.8
7.6	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9
7.8	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9
8.0	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9
8.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0
8.4	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0
8.6	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	97.0	97.0	97.1
8.8	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1
9.0	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2
9.2	96.5	96.6	96.7	96.7	96.8	96.9	97.0	97.0	97.1	97.2	97.2
9.4	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3
9.6	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3
9.8	96.7	96.7	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3
10.0	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4
10.2	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4
10.4	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5
10.6	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5
10.8	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5
11.0	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6
11.2	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6
11.4	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6
11.6	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7
11.8	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7
12.0	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7
12.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
12.4	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8
12.6	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
12.8	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
13.0	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
13.2	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
13.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
13.6	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
13.8	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
14.0	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.20	11.21	11.22	11.23	11.24	11.25	11.26	11.27	11.28	11.29	11.30
14.0	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
14.2	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1
14.4	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
14.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1
14.8	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2
15.0	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2
15.2	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2
15.4	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3
15.6	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3
15.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3
16.0	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3
16.2	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4
16.4	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
16.6	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4
16.8	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4
17.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4
17.2	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5
17.4	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
17.6	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5
17.8	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
18.0	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6
18.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
18.4	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
18.6	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
18.8	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
19.0	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
19.2	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.7
19.4	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
19.6	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
19.8	98.4	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.7
20.0	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8
20.2	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8
20.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
20.6	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
20.8	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8
21.0	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.20	11.21	11.22	11.23	11.24	11.25	11.26	11.27	11.28	11.29	11.30
21.0	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
21.2	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9
21.4	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
21.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
21.8	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9
22.0	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
22.2	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
22.4	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
22.6	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
22.8	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
23.0	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
23.2	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
23.4	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
23.6	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
23.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
24.0	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1
24.2	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
24.4	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1
24.6	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1
24.8	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
25.0	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
25.2	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
25.4	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2
25.6	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
25.8	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
26.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
26.2	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
26.4	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
26.6	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
26.8	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
27.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
27.2	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
27.4	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3
27.6	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
27.8	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3
28.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.20	11.21	11.22	11.23	11.24	11.25	11.26	11.27	11.28	11.29	11.30
28.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
28.2	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
28.4	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
28.6	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
28.8	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
29.0	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
29.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
29.4	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
29.6	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4
29.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
30.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
30.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
30.4	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
30.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
30.8	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
31.0	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
31.2	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
31.4	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
31.6	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
31.8	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
32.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
32.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
32.4	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
32.6	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
32.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
33.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
33.2	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
33.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
33.6	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
33.8	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
34.0	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
34.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
34.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
34.6	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
34.8	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
35.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.20	11.21	11.22	11.23	11.24	11.25	11.26	11.27	11.28	11.29	11.30
35.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
35.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
35.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
35.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
35.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
36.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
36.2	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
36.4	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
36.6	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
36.8	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
37.0	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
37.2	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
37.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
37.6	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
37.8	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
38.0	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
38.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
38.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
38.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
38.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
39.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
39.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
39.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
39.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
39.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
40.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7

TEMP DEG C	PH 11.30	11.31	11.32	11.33	11.34	11.35	11.36	11.37	11.38	11.39	11.40
.0	94.3	94.4	94.5	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4
.2	94.4	94.5	94.6	94.7	94.8	95.0	95.1	95.2	95.3	95.4	95.5
.4	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.4	95.5	95.6
.6	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6
.8	94.6	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7
1.0	94.7	94.8	94.9	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
1.2	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8
1.4	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9
1.6	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0
1.8	95.0	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.8	95.9	96.0
2.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1
2.2	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.1
2.4	95.3	95.4	95.5	95.6	95.7	95.8	95.9	95.9	96.0	96.1	96.2
2.6	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3
2.8	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3
3.0	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4
3.2	95.6	95.7	95.8	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4
3.4	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5
3.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.6
3.8	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6
4.0	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7
4.2	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7
4.4	96.0	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8
4.6	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8
4.8	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9
5.0	96.1	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8	96.9
5.2	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.8	96.8	96.9	97.0
5.4	96.3	96.3	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0
5.6	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1
5.8	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1
6.0	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1
6.2	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2
6.4	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2
6.6	96.6	96.7	96.7	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3
6.8	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3
7.0	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.30	11.31	11.32	11.33	11.34	11.35	11.36	11.37	11.38	11.39	11.40
7.0	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4
7.2	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4
7.4	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4
7.6	96.9	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5
7.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5
8.0	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6
8.2	97.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6
8.4	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6
8.6	97.1	97.1	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7
8.8	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.5	97.6	97.7	97.7
9.0	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7
9.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
9.4	97.3	97.3	97.4	97.4	97.5	97.5	97.6	97.7	97.7	97.8	97.8
9.6	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
9.8	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
10.0	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
10.2	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
10.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
10.6	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
10.8	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
11.0	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
11.2	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1
11.4	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
11.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1
11.8	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2
12.0	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2
12.2	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2
12.4	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3
12.6	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3
12.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3
13.0	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3
13.2	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4
13.4	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
13.6	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4
13.8	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4
14.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.30	11.31	11.32	11.33	11.34	11.35	11.36	11.37	11.38	11.39	11.40
14.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5
14.2	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5
14.4	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
14.6	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5
14.8	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
15.0	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
15.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6
15.4	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
15.6	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
15.8	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6
16.0	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
16.2	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
16.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7
16.6	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
16.8	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7
17.0	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.8
17.2	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
17.4	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8
17.6	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
17.8	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
18.0	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9
18.2	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
18.4	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
18.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
18.8	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
19.0	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
19.2	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
19.4	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
19.6	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
19.8	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
20.0	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
20.2	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
20.4	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
20.6	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
20.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1
21.0	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.30	11.31	11.32	11.33	11.34	11.35	11.36	11.37	11.38	11.39	11.40
21.0	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
21.2	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1
21.4	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1
21.6	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
21.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
22.0	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
22.2	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
22.4	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
22.6	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
22.8	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2
23.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
23.2	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
23.4	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
23.6	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
23.8	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
24.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
24.2	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3
24.4	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
24.6	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
24.8	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
25.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
25.2	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
25.4	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
25.6	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
25.8	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
26.0	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
26.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
26.4	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
26.6	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
26.8	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
27.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
27.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
27.4	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
27.6	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
27.8	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
28.0	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.30	11.31	11.32	11.33	11.34	11.35	11.36	11.37	11.38	11.39	11.40
28.0	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
28.2	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
28.4	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
28.6	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
28.8	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
29.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
29.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
29.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
29.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
29.8	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
30.0	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
30.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
30.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
30.6	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
30.8	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
31.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
31.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
31.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
31.6	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
31.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
32.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
32.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
32.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
32.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
32.8	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
33.0	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
33.2	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
33.4	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
33.6	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
33.8	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
34.0	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
34.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
34.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
34.6	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
34.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
35.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.30	11.31	11.32	11.33	11.34	11.35	11.36	11.37	11.38	11.39	11.40
35.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
35.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
35.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
35.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
35.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
36.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
36.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
36.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
36.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
36.8	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
37.0	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
37.2	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
37.4	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
37.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
37.8	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
38.0	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
38.2	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
38.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
38.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
38.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
39.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
39.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
39.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
39.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
39.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
40.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.40	11.41	11.42	11.43	11.44	11.45	11.46	11.47	11.48	11.49	11.50
.0	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3
.2	95.5	95.6	95.7	95.8	95.9	96.0	96.0	96.1	96.2	96.3	96.4
.4	95.6	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.4
.6	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5
.8	95.7	95.8	95.9	96.0	96.1	96.1	96.2	96.3	96.4	96.5	96.5
1.0	95.8	95.9	95.9	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6
1.2	95.8	95.9	96.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.7
1.4	95.9	96.0	96.1	96.2	96.2	96.3	96.4	96.5	96.6	96.6	96.7
1.6	96.0	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8
1.8	96.0	96.1	96.2	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8
2.0	96.1	96.2	96.3	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9
2.2	96.1	96.2	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8	96.9
2.4	96.2	96.3	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0
2.6	96.3	96.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0
2.8	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1
3.0	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1
3.2	96.4	96.5	96.6	96.7	96.7	96.8	96.9	97.0	97.0	97.1	97.2
3.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2
3.6	96.6	96.6	96.7	96.8	96.8	96.9	97.0	97.1	97.1	97.2	97.2
3.8	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3
4.0	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3
4.2	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4
4.4	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4
4.6	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5
4.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5
5.0	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5
5.2	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6
5.4	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6
5.6	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6
5.8	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7
6.0	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7
6.2	97.2	97.3	97.3	97.4	97.4	97.5	97.5	97.6	97.7	97.7	97.8
6.4	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
6.6	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
6.8	97.3	97.4	97.4	97.5	97.5	97.6	97.7	97.7	97.8	97.8	97.9
7.0	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.40	11.41	11.42	11.43	11.44	11.45	11.46	11.47	11.48	11.49	11.50
7.0	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
7.2	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
7.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
7.6	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
7.8	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
8.0	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
8.2	97.6	97.6	97.7	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.1
8.4	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
8.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1
8.8	97.7	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.1	98.1	98.2
9.0	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2
9.2	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2
9.4	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3
9.6	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3
9.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3
10.0	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3
10.2	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4
10.4	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
10.6	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4
10.8	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4
11.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5
11.2	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5
11.4	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
11.6	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5
11.8	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
12.0	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
12.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6
12.4	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
12.6	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
12.8	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
13.0	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
13.2	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
13.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
13.6	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
13.8	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8
14.0	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.40	11.41	11.42	11.43	11.44	11.45	11.46	11.47	11.48	11.49	11.50
14.0	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8
14.2	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
14.4	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
14.6	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8
14.8	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
15.0	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9
15.2	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
15.4	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
15.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9
15.8	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
16.0	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
16.2	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
16.4	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
16.6	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
16.8	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
17.0	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
17.2	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
17.4	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
17.6	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1
17.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
18.0	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1
18.2	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1
18.4	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1
18.6	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
18.8	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
19.0	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2
19.2	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
19.4	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
19.6	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
19.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
20.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
20.2	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
20.4	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
20.6	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
20.8	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
21.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.40	11.41	11.42	11.43	11.44	11.45	11.46	11.47	11.48	11.49	11.50
21.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3
21.2	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
21.4	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
21.6	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
21.8	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
22.0	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
22.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
22.4	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
22.6	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
22.8	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
23.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4
23.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
23.4	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
23.6	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
23.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
24.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
24.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
24.4	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
24.6	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
24.8	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
25.0	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
25.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
25.4	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
25.6	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
25.8	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
26.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
26.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
26.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
26.6	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
26.8	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
27.0	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
27.2	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
27.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
27.6	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
27.8	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
28.0	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6

TEMP DEG C	PH 11.40	11.41	11.42	11.43	11.44	11.45	11.46	11.47	11.48	11.49	11.50
28.0	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
28.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
28.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
28.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
28.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
29.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
29.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
29.4	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
29.6	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
29.8	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
30.0	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
30.2	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
30.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
30.6	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
30.8	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
31.0	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
31.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
31.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
31.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
31.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
32.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
32.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
32.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
32.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
32.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
33.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
33.2	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
33.4	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
33.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
33.8	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
34.0	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
34.2	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
34.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
34.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
34.8	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
35.0	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.40	11.41	11.42	11.43	11.44	11.45	11.46	11.47	11.48	11.49	11.50
35.0	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
35.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
35.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
35.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
35.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
36.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
36.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
36.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
36.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
36.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8
37.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8
37.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
37.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
37.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
37.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
38.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
38.2	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
38.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
38.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
38.8	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
39.0	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
39.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
39.4	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
39.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
39.8	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
40.0	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.50	11.51	11.52	11.53	11.54	11.55	11.56	11.57	11.58	11.59	11.60
.0	96.3	96.4	96.5	96.6	96.6	96.7	96.8	96.8	96.9	97.0	97.1
.2	96.4	96.5	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1
.4	96.4	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1
.6	96.5	96.6	96.6	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2
.8	96.5	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2
1.0	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3
1.2	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3
1.4	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4
1.6	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.4	97.4
1.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5
2.0	96.9	96.9	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5
2.2	96.9	97.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5
2.4	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6
2.6	97.0	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6
2.8	97.1	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.5	97.6	97.7
3.0	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7
3.2	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7
3.4	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8
3.6	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
3.8	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
4.0	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
4.2	97.4	97.4	97.5	97.5	97.6	97.7	97.7	97.8	97.8	97.9	97.9
4.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
4.6	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
4.8	97.5	97.5	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
5.0	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
5.2	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
5.4	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1
5.6	97.6	97.7	97.8	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
5.8	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2
6.0	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2
6.2	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2
6.4	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2
6.6	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3
6.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3
7.0	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.50	11.51	11.52	11.53	11.54	11.55	11.56	11.57	11.58	11.59	11.60
7.0	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3
7.2	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3
7.4	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
7.6	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4
7.8	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.4	98.4
8.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4
8.2	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5
8.4	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
8.6	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5
8.8	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
9.0	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
9.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.6	98.6
9.4	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
9.6	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
9.8	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6
10.0	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
10.2	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
10.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
10.6	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
10.8	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7
11.0	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8
11.2	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
11.4	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8
11.6	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8
11.8	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
12.0	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
12.2	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9
12.4	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
12.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
12.8	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
13.0	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
13.2	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
13.4	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
13.6	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
13.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
14.0	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.50	11.51	11.52	11.53	11.54	11.55	11.56	11.57	11.58	11.59	11.60
14.0	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
14.2	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
14.4	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
14.6	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1
14.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
15.0	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1
15.2	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1
15.4	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
15.6	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
15.8	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
16.0	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
16.2	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
16.4	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
16.6	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
16.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
17.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
17.2	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
17.4	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
17.6	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
17.8	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3
18.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
18.2	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3
18.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
18.6	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
18.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
19.0	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
19.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
19.4	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
19.6	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
19.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4
20.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
20.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
20.4	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
20.6	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
20.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
21.0	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.50	11.51	11.52	11.53	11.54	11.55	11.56	11.57	11.58	11.59	11.60
21.0	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
21.2	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
21.4	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
21.6	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
21.8	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
22.0	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
22.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
22.4	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
22.6	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
22.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
23.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
23.2	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
23.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
23.6	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
23.8	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
24.0	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
24.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
24.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
24.6	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
24.8	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
25.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
25.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
25.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
25.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
25.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
26.0	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
26.2	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
26.4	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
26.6	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
26.8	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
27.0	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
27.2	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
27.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
27.6	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
27.8	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
28.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.50	11.51	11.52	11.53	11.54	11.55	11.56	11.57	11.58	11.59	11.60
28.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
28.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
28.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
28.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
28.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
29.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
29.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
29.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
29.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
29.8	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
30.0	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
30.2	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
30.4	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
30.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
30.8	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
31.0	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
31.2	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
31.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
31.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
31.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
32.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
32.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
32.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
32.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
32.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
33.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
33.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
33.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8
33.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
33.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
34.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
34.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
34.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
34.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
34.8	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
35.0	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.50	11.51	11.52	11.53	11.54	11.55	11.56	11.57	11.58	11.59	11.60
35.0	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
35.2	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
35.4	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
35.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
35.8	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
36.0	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
36.2	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
36.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
36.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
36.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
37.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
37.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
37.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
37.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
37.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
38.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
38.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
38.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
38.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
38.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
39.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
39.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
39.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
39.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
39.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
40.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TEMP DEG C	PH 11.60	11.61	11.62	11.63	11.64	11.65	11.66	11.67	11.68	11.69	11.70
.0	97.1	97.1	97.2	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6
.2	97.1	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7
.4	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7
.6	97.2	97.3	97.3	97.4	97.4	97.5	97.5	97.6	97.7	97.7	97.8
.8	97.2	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8
1.0	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8
1.2	97.3	97.4	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9
1.4	97.4	97.4	97.5	97.5	97.6	97.6	97.7	97.8	97.8	97.9	97.9
1.6	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9
1.8	97.5	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0
2.0	97.5	97.5	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
2.2	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
2.4	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1
2.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
2.8	97.7	97.7	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.1	98.1
3.0	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2
3.2	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2
3.4	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2
3.6	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2
3.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3
4.0	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3
4.2	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3
4.4	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4
4.6	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
4.8	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4
5.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4
5.2	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5
5.4	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5
5.6	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
5.8	98.2	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5
6.0	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
6.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
6.4	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
6.6	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
6.8	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
7.0	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7

TEMP DEG C	PH 11.60	11.61	11.62	11.63	11.64	11.65	11.66	11.67	11.68	11.69	11.70
7.0	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
7.2	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
7.4	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
7.6	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
7.8	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7
8.0	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8
8.2	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
8.4	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8
8.6	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
8.8	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
9.0	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9
9.2	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
9.4	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
9.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9
9.8	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
10.0	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
10.2	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
10.4	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
10.6	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
10.8	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
11.0	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
11.2	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
11.4	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
11.6	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1
11.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
12.0	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1
12.2	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1
12.4	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
12.6	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
12.8	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
13.0	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
13.2	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2
13.4	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
13.6	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
13.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
14.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.60	11.61	11.62	11.63	11.64	11.65	11.66	11.67	11.68	11.69	11.70
14.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
14.2	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
14.4	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
14.6	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
14.8	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3
15.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3
15.2	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
15.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
15.6	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
15.8	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
16.0	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
16.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
16.4	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
16.6	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
16.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
17.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
17.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
17.4	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
17.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
17.8	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
18.0	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
18.2	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
18.4	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
18.6	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
18.8	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
19.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
19.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
19.4	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
19.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
19.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
20.0	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
20.2	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
20.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
20.6	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
20.8	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
21.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.60	11.61	11.62	11.63	11.64	11.65	11.66	11.67	11.68	11.69	11.70
21.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
21.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
21.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
21.6	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
21.8	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
22.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
22.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
22.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
22.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
22.8	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
23.0	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
23.2	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
23.4	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
23.6	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
23.8	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
24.0	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
24.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
24.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
24.6	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
24.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
25.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
25.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
25.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
25.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
25.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
26.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
26.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
26.4	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
26.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
26.8	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
27.0	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
27.2	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
27.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
27.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
27.8	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
28.0	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.60	11.61	11.62	11.63	11.64	11.65	11.66	11.67	11.68	11.69	11.70
28.0	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
28.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
28.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
28.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
28.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
29.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
29.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
29.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
29.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
29.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8
30.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
30.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
30.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
30.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
30.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
31.0	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
31.2	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
31.4	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
31.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
31.8	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
32.0	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
32.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
32.4	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
32.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
32.8	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
33.0	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
33.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
33.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
33.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
33.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
34.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
34.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
34.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
34.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
34.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
35.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.60	11.61	11.62	11.63	11.64	11.65	11.66	11.67	11.68	11.69	11.70
35.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
35.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
35.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
35.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
35.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
36.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
36.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
36.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
36.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
36.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
37.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
37.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
37.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
37.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
37.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
38.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
38.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
38.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
38.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
38.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
39.0	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
39.2	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
39.4	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
39.6	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
39.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
40.0	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.80
.0	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1
.2	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2
.4	97.7	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2
.6	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2
.8	97.8	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2
1.0	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3
1.2	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3
1.4	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3
1.6	97.9	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4
1.8	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4
2.0	98.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4
2.2	98.0	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4
2.4	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5
2.6	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5
2.8	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
3.0	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
3.2	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6
3.4	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
3.6	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
3.8	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
4.0	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
4.2	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
4.4	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
4.6	98.4	98.4	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7
4.8	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
5.0	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7
5.2	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8
5.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
5.6	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
5.8	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8
6.0	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
6.2	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
6.4	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9
6.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
6.8	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
7.0	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.80
7.0	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
7.2	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
7.4	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
7.6	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
7.8	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
8.0	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
8.2	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
8.4	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
8.6	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1
8.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
9.0	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1
9.2	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1
9.4	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
9.6	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
9.8	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
10.0	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
10.2	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2
10.4	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
10.6	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
10.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
11.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
11.2	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
11.4	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
11.6	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
11.8	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3
12.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3
12.2	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
12.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
12.6	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
12.8	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
13.0	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
13.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
13.4	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
13.6	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
13.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
14.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.80
14.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
14.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
14.4	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
14.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
14.8	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
15.0	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
15.2	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
15.4	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
15.6	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
15.8	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
16.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
16.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
16.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
16.6	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
16.8	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
17.0	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
17.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
17.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
17.6	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
17.8	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
18.0	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
18.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
18.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
18.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
18.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
19.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
19.2	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
19.4	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
19.6	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
19.8	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
20.0	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
20.2	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
20.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
20.6	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
20.8	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
21.0	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.80
21.0	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
21.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
21.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
21.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
21.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
22.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
22.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
22.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
22.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
22.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
23.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
23.2	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
23.4	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
23.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
23.8	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
24.0	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
24.2	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
24.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
24.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
24.8	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
25.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
25.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
25.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
25.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
25.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
26.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
26.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
26.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
26.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8
26.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8
27.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
27.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
27.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
27.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
27.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
28.0	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.80
28.0	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
28.2	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
28.4	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
28.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
28.8	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29.0	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29.2	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29.4	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29.8	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
30.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
30.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
30.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
30.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
30.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
31.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
31.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
31.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
31.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
31.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
32.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
32.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
32.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
32.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
32.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
33.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
33.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
33.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
33.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
33.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
34.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
34.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
34.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
34.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
34.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
35.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.80
35.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
35.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
35.4	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
35.6	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
35.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
36.0	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
36.2	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.4	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.0	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
40.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.80	11.81	11.82	11.83	11.84	11.85	11.86	11.87	11.88	11.89	11.90
.0	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5
.2	98.2	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5
.4	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5
.6	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6
.8	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6
1.0	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
1.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6
1.4	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7
1.6	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7
1.8	98.4	98.4	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7
2.0	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7
2.2	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7
2.4	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8
2.6	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8
2.8	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8
3.0	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8
3.2	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
3.4	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
3.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9
3.8	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9
4.0	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
4.2	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
4.4	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
4.6	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
4.8	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
5.0	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
5.2	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
5.4	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
5.6	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
5.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1
6.0	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
6.2	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1
6.4	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1
6.6	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
6.8	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
7.0	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.80	11.81	11.82	11.83	11.84	11.85	11.86	11.87	11.88	11.89	11.90
7.0	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2
7.2	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
7.4	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
7.6	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2
7.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
8.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
8.2	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
8.4	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
8.6	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
8.8	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3
9.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
9.2	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
9.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
9.6	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
9.8	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
10.0	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
10.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
10.4	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
10.6	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
10.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
11.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
11.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
11.4	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
11.6	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
11.8	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
12.0	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
12.2	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
12.4	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
12.6	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
12.8	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
13.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
13.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
13.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
13.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
13.8	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
14.0	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.80	11.81	11.82	11.83	11.84	11.85	11.86	11.87	11.88	11.89	11.90
14.0	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
14.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
14.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
14.6	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
14.8	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
15.0	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
15.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
15.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
15.6	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
15.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
16.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
16.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
16.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
16.6	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
16.8	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
17.0	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
17.2	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
17.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
17.6	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
17.8	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
18.0	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
18.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
18.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
18.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
18.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
19.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
19.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
19.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
19.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
19.8	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
20.0	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
20.2	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
20.4	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
20.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
20.8	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
21.0	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.80	11.81	11.82	11.83	11.84	11.85	11.86	11.87	11.88	11.89	11.90
21.0	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
21.2	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
21.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
21.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
21.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
22.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
22.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
22.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
22.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
22.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
23.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
23.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
23.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8
23.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
23.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
24.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
24.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
24.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
24.6	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
24.8	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
25.0	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
25.2	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
25.4	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
25.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
25.8	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26.0	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
27.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
27.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
27.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
27.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
27.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
28.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.80	11.81	11.82	11.83	11.84	11.85	11.86	11.87	11.88	11.89	11.90
28.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
28.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
28.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
28.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
28.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
30.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
30.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
30.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
30.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
30.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
31.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
31.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
31.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
31.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
31.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
32.0	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
32.2	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
32.4	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
32.6	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
32.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
33.0	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
33.2	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
33.4	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
33.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
33.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
34.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
34.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
34.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
34.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
34.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
35.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.80	11.81	11.82	11.83	11.84	11.85	11.86	11.87	11.88	11.89	11.90
35.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
35.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
35.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
35.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
35.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
40.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.90	11.91	11.92	11.93	11.94	11.95	11.96	11.97	11.98	11.99	12.00
.0	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8
.2	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8
.4	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8
.6	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9
.8	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9
1.0	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9
1.2	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
1.4	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
1.6	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
1.8	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0
2.0	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0
2.2	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
2.4	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
2.6	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
2.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1
3.0	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1
3.2	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1
3.4	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1
3.6	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1
3.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
4.0	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
4.2	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
4.4	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2
4.6	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
4.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
5.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
5.2	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
5.4	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
5.6	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
5.8	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.3	99.3
6.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
6.2	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
6.4	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
6.6	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
6.8	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
7.0	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.90	11.91	11.92	11.93	11.94	11.95	11.96	11.97	11.98	11.99	12.00
7.0	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
7.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
7.4	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
7.6	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
7.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
8.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
8.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
8.4	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
8.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
8.8	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4
9.0	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
9.2	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
9.4	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
9.6	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
9.8	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
10.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
10.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
10.4	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
10.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
10.8	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
11.0	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
11.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
11.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
11.6	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
11.8	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
12.0	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
12.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
12.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
12.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
12.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
13.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
13.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
13.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
13.6	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
13.8	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
14.0	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.90	11.91	11.92	11.93	11.94	11.95	11.96	11.97	11.98	11.99	12.00
14.0	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
14.2	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
14.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
14.6	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
14.8	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
15.0	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
15.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
15.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
15.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
15.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
16.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
16.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
16.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
16.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
16.8	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
17.0	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
17.2	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
17.4	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
17.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
17.8	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
18.0	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
18.2	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
18.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
18.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
18.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
19.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
19.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
19.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
19.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
19.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
20.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
20.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8
20.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
20.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
20.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
21.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.90	11.91	11.92	11.93	11.94	11.95	11.96	11.97	11.98	11.99	12.00
21.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
21.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
21.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
21.6	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
21.8	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
22.0	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
22.2	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
22.4	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
22.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
22.8	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
23.0	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
23.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
23.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
23.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
23.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
24.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
24.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
24.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
24.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
24.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
25.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
25.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
25.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
25.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
25.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
27.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
27.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
27.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
27.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
27.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
28.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.90	11.91	11.92	11.93	11.94	11.95	11.96	11.97	11.98	11.99	12.00
28.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
28.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
28.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
28.6	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
28.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
29.0	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
29.2	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
29.4	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
29.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
29.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
30.0	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
30.2	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
30.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
30.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
30.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
31.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
31.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
31.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
31.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
31.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
32.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
32.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
32.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
32.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
32.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
33.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
33.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
33.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
33.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
33.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
34.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
34.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
34.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
34.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
34.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
35.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TABLE A-1 CONTINUED

TEMP DEG C	PH 11.90	11.91	11.92	11.93	11.94	11.95	11.96	11.97	11.98	11.99	12.00
35.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
35.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
35.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
35.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
35.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
36.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
37.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
38.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
39.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
40.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TECHNICAL REPORT DATA
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1. REPORT NO. EPA-600/3-79-091	2.	3. RECIPIENT'S ACCESSION NO.
4. TITLE AND SUBTITLE Aqueous Ammonia Equilibrium - Tabulation of Percent Un-ionized Ammonia		5. REPORT DATE August 1979 issuing date
		6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S) Robert V. Thurston, Rosemarie C. Russo, and Kenneth Emerson		8. PERFORMING ORGANIZATION REPORT NO.
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15. SUPPLEMENTARY NOTES
This report is the first of a series that describes the acute and chronic effects of ammonia and nitrite on fishes and macroinvertebrates.

16. ABSTRACT

The percent of un-ionized ammonia as a function of pH and temperature in aqueous ammonia solutions of zero salinity is presented in tabular form over the following ranges: temperature 0.0 to 40.0 C in incréments of 0.2 degree, and pH 5.00 to 12.00 in increments of 0.01 pH unit.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
*Ammonia *Chemical Equilibrium pH Temperature Water	*Un-ionized (NH_3) Tabulation Percent Zero Salinity	99 F

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