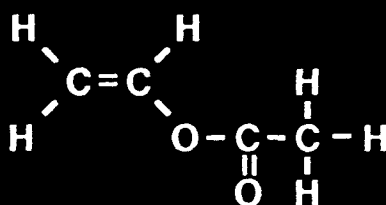




**HANDBOOK OF RCRA
GROUND-WATER
MONITORING CONSTITUENTS:
CHEMICAL & PHYSICAL PROPERTIES**

40 CFR PART 264, APPENDIX IX

SEPTEMBER 1992



Office of Solid Waste
Permits and State Programs Division
U.S. Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460

**HANDBOOK OF RCRA GROUND-WATER
MONITORING CONSTITUENTS:
CHEMICAL AND PHYSICAL PROPERTIES
(APPENDIX IX to 40 CFR PART 264)**

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Attn: Appendix IX Handbook
U.S. EPA Office of Solid Waste (OS-341)
401 M Street, SW
Washington, D.C. 20460

ACKNOWLEDGMENTS

The HANDBOOK OF RCRA GROUND-WATER MONITORING CONSTITUENTS was developed by USEPA's Office of Solid Waste. Mr. James R. Brown of the Permits and State Programs Division provided overall project management, technical direction and coordination of the project under the direction of Dr. Vernon Myers, Chief of the Monitoring and Technology Section of the Permits and State Programs Division. Technical support in the preparation of the Handbook was provided by Science Applications International Corporation (SAIC). SAIC staff who assisted with the preparation of the Handbook include Ms. Ann Johnson, Hydrogeologist, Mr. Richard Cariston, Programmer/Analyst, Mr. Steve Winegar, Computer Graphics Specialist, Ms. Gail Bryan, Chemist, and Ms. Julie Van Deuren, Chemist.

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INTRODUCTION

The HANDBOOK OF RCRA GROUND-WATER MONITORING CONSTITUENTS contains physical and chemical properties of constituents listed in 40 CFR Part 264, Appendix IX.

Appendix IX is the list of ground-water monitoring constituents for permitted hazardous waste treatment, storage, and disposal facilities that are implementing the ground-water monitoring requirements of 40 CFR Part 264 Subpart F.

Appendix IX was intended to be a "living" list — to be updated and revised as analytical methods are developed and standardized, and as research on the fate and transport of specific contaminants in the subsurface advances. The constituents contained in this handbook are those currently listed in Appendix IX, however the Handbook also contains constituents that are being considered for addition to or deletion from Appendix IX. Those constituents that are being considered for addition to Appendix IX are indicated in the Handbook by a single asterisk (*) following the chemical name. Those constituents that are being considered for deletion from Appendix IX are indicated by a double asterisk (**).

For each constituent listed in Appendix IX, the Handbook provides the following information, as available:

- | | |
|-----------------------|--|
| 1. Appendix IX Name: | The name of the constituent as it appears on the list of ground-water monitoring constituents listed in 40 CFR Part 264, Appendix IX. The Handbook is organized by Appendix IX name. |
| 2. CAS Name: | The name of the constituent as it appears in the Chemical Abstracts Service (CAS) Registry. |
| 3. CAS Number: | The CAS registry number. |
| 4. Empirical Formula: | The chemical formula that provides the number of each type of atom in the molecule. For metals, the Handbook provides the chemical symbol. |

5. **Maximum Contaminant Level:** The maximum permissible level of the constituent in water which is delivered to any user of a public water system. Proposed maximum contaminant levels (MCLs) are provided where final MCLs are not yet available. If there does not exist a maximum contaminant level for the constituent, the notation "NA" is presented in the text. New and revised MCLs are continually being proposed and promulgated under the Safe Drinking Water Act and are published in the Federal Register. The most recent MCLs available as of August 1992 have been included in the text.

6. **Molecular Weight:** The molecular or formula weight of the constituent in grams/mole.

7. **Boiling Point:** The temperature in degrees celsius at which the vapor pressure of the constituent in aqueous form is equal to atmospheric pressure, except where an alternate reference pressure for the constituent's boiling point is otherwise noted.

8. **Melting Point:** The temperature in degrees celsius at which the constituent in solid phase is in equilibrium with the liquid phase at atmospheric pressure, except where an alternate reference pressure for the constituent's melting point is otherwise noted.

9. **Specific Gravity:** The ratio of the density of the constituent relative to the density of water. Specific gravity values are reported in the form: SG at T_c/T_w where:

SG = Specific Gravity

T_c = Temperature of the constituent at the time of measurement

T_w = Water temperature

If only one reference temperature is given, it represents T_c with an assumption that $T_w = 4^\circ\text{C}$. If no reference temperature was available for the constituent's specific gravity, the notation [UT] is presented after the value.

10. Solubility:

The concentration of the constituent (in milligrams per liter) that is required to form a saturated solution in water at the referenced temperature. If no reference temperature was available for the constituent's solubility, the notation [UT] is presented after the value.

11. Vapor Pressure:

The pressure (in mm Hg) of the vapor phase of the constituent that is in equilibrium with its liquid or solid phase at the referenced temperature. If no reference temperature was available for the constituent's vapor pressure, the notation [UT] is presented after the value.

12. Henry's Law Constant:

The ratio of the equilibrium concentration (in atmosphere) of a constituent in air relative to its concentration (in moles/cubic meter) in water at the referenced temperature. If no reference temperature was available for the constituent's Henry's Law Constant, the notation [UT] is presented after the value.

13. Log K_{ow} :

The log of the ratio of the equilibrium concentration of the constituent in octanol relative to its concentration in water.

14. Possible SW-846 Methods:

The analytical methods presented in the USEPA publication "Test Methods for Evaluating Solid Waste" (SW-846), as amended by Updates I and II, that may be used to determine the concentration of the

constituent in ground water. For each method, an Estimated Quantitation Limit (EQL) is given if an EQL is available. When different EQLs exist for 5 and 25 mL sample sizes, the EQL for the 5 mL sample size is provided in the Handbook. When the Handbook presents two EQLs for one analytical method, the two EQLs represent the EQLs obtained using two different detector types.

15. Chemical Structure:

The chemical formula drawn to show the relative arrangements of the atoms. For metals, the Handbook provides the chemical symbol.

TABLE OF ABBREVIATIONS

atm:	:	Atmospheres (1 atm = 760 mm Hg).
atm·m ³ /mol:	:	(Atmospheres) (cubic meters)/(moles).
CAS	:	Chemical Abstracts Service.
EQL	:	Estimated Quantitation Limit - The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. Sample EQLs are highly matrix-dependent. When available, EQLs for the ground-water matrix are presented in the Handbook. EQLs are provided for guidance and may not always be achievable. Note: When two EQLs are presented in the Handbook, they represent the EQLs obtained using two different detector types.
g/mol	:	Grams per mole.
Log K _{ow}	:	Log octanol/water partition coefficient.
MCL	:	Maximum Contaminant Level.
mg/Kg	:	Milligrams per Kilogram.
mg/L	:	Milligrams per Liter.
mm Hg	:	Millimeters of mercury (Hg) (1 mm Hg = 1.316 x 10 ⁻³ atm).
NA	:	Not available or not applicable.
REF	:	Reference Number.
SW-846	:	USEPA 1986. <u>Test Methods for Evaluating Solid Waste</u> , Third Edition, as amended by Updates I and II. U.S. Government Printing Office, Washington, D.C., USEPA SW-846.

µg/L : Micrograms per Liter.

[UT] : Reference temperature is unspecified.

***** : Constituent is being considered for addition to Appendix IX.

****** : Constituent is being considered for deletion from Appendix IX.

Acenaphthene**CAS Name:** Acenaphthylene, 1,2-dihydro-**CAS Number:** 83-32-9**Empirical Formula:** C₁₂H₁₀**MCL:** NA**Molecular Weight:** 154.21 g/mol**Melting Point:** 96.2°C**Boiling Point:** 279 °C**Vapor Pressure:** 1.0 x 10⁰¹ mm Hg at 131°C**Specific Gravity:** 1.0242 at 90/4°C**Solubility:** 3.42 x 10⁰⁰ mg/L at 25°C**Henry's Law Constant:** 2.41 x 10⁻⁰⁴ atm • m³/mol at 25°C**Log K_{ow}:** 3.92**REF**

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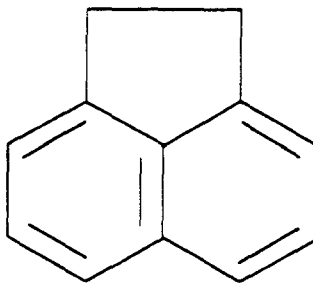
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Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8100	NA
8250	19
8270	10
8310	18

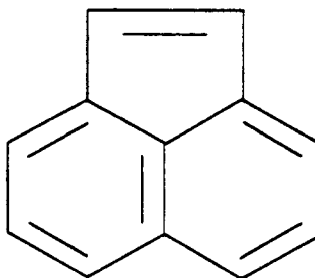


Acenaphthylene**CAS Name:** Acenaphthylene

CAS Number:	208-96-8	REF
Empirical Formula:	C ₁₂ H ₈	
MCL:	NA	
Molecular Weight:	152.20 g/mol	01
Melting Point:	92-93 °C	01
Boiling Point:	265-275 °C	01
Vapor Pressure:	2.9 x 10 ⁻⁰² mm Hg at 20°C	04
Specific Gravity:	0.8988 at 16/2°C	01
Solubility:	3.93 x 10 ⁰⁰ mg/L at 25°C	03
Henry's Law Constant:	1.14 x 10 ⁻⁰⁴ atm • m ³ /mol at 25°C	03
Log K_{ow}:	4.07	03

Possible SW-846 Analytical Methods

Method	EQL (µg/L)
8100	NA
8250	35
8270	10
8310	23



Acetone**CAS Name:** 2-Propanone**CAS Number:** 67-64-1**Empirical Formula:** C₃H₆O**MCL:** NA**Molecular Weight:** 58.08 g/mol**Melting Point:** -95.35°C**Boiling Point:** 56.2°C**Vapor Pressure:** 2.66 x 10⁰² mm Hg at 25°C**Specific Gravity:** 0.7899 at 20/4°C**Solubility:** miscible**Henry's Law Constant:** 4.276 x 10⁻⁰⁵ atm • m³/mol at 25°C**Log K_{ow}:** -0.24**REF**

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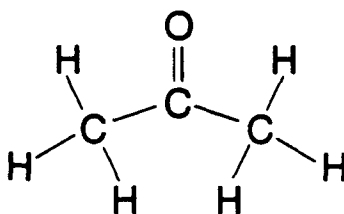
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Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8240

100



Acetonitrile; Methyl cyanide

CAS Name: Acetonitrile							
CAS Number: 75-05-8	REF						
Empirical Formula: C ₂ H ₃ N							
MCL: NA							
Molecular Weight: 41.05 g/mol	01						
Melting Point: -45.7 °C	01						
Boiling Point: 81.6°C	01						
Vapor Pressure: 7.4 x 10 ⁰¹ mm Hg at 20°C	03						
Specific Gravity: 0.7857 at 20°C	01						
Solubility: miscible	03						
Henry's Law Constant: 2.007 x 10 ⁻⁰⁵ atm • m ³ /mol at 25°C	06						
Log K_{ow}: -0.34	03						
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(μg/L)</th></tr> </thead> <tbody> <tr> <td>8240</td><td>100</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(μg/L)	8240	100
Possible SW-846 Analytical Methods							
Method	EQL(μg/L)						
8240	100						
$\begin{array}{c} \text{H} \\ \\ \text{N} \equiv \text{C} - \text{C} - \text{H} \\ \\ \text{H} \end{array}$							

Acetophenone**CAS Name:** Ethanone, 1-phenyl-**CAS Number:** 98-86-2**Empirical Formula:** C₈H₈O**MCL:** NA**Molecular Weight:** 120.15 g/mol**Melting Point:** 20.5°C**Boiling Point:** 202.6°C**Vapor Pressure:** 1 x 10⁰⁰ mm Hg at 15°C**Specific Gravity:** 1.0281 at 20/4°C**Solubility:** 5.5 x 10⁰³ mg/L [UT]**Henry's Law Constant:** NA**Log K_{ow}:** 1.58**REF**

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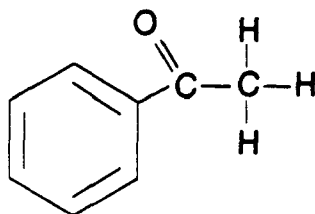
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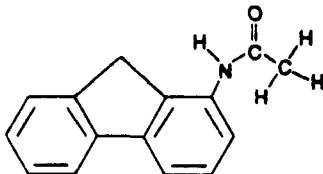
Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

8250 NA

8270 10



2-Acetylaminofluorene; 2-AAF

CAS Name: Acetamide, N-9H-fluoren-2-yl-	
CAS Number: 53-96-3	REF 01 01 03 04
Emprirical Formula: C ₁₅ H ₁₃ NO	
MCL: NA	
Molecular Weight: 223.27 g/mol	
Melting Point: 194 °C	
Boiling Point: NA	
Vapor Pressure: NA	
Specific Gravity: NA	
Solubility: insoluble	
Henry's Law Constant: NA	
Log K_{ow}: 3.28	
Possible SW-846 Analytical Methods	
Method	EQL(µg/L)
8270	20
	

Acrolein ****CAS Name:** 2-Propenal**CAS Number:** 107-02-8**Empirical Formula:** C₃H₄O**MCL:** NA**Molecular Weight:** 56.06 g/mol**Melting Point:** -86.9 °C**Boiling Point:** 52.5-53.5°C**Vapor Pressure:** 2.10 x 10⁰² mm Hg at 20°C**Specific Gravity:** 0.8410 at 20/4°C**Solubility:** 2.08 x 10⁰⁵ mg/L at 20°C**Henry's Law Constant:** 4.4 x 10⁻⁰⁶ atm • m³/mol at 25°C**Log K_{ow}:** -0.09**REF**

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Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8030

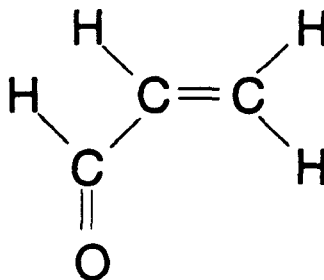
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8240

NA

8316

NA

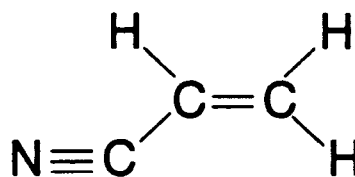


Acrylonitrile**CAS Name:** 2-Propenenitrile

CAS Number:	107-13-1	REF
Empirical Formula:	C ₃ H ₃ N	
MCL:	NA	
Molecular Weight:	53.06 g/mol	01
Melting Point:	-83°C	05
Boiling Point:	77.5-79°C	01
Vapor Pressure:	1.37x10 ⁰² mm Hg at 30°C	03
Specific Gravity:	0.8060 at 20/4°C	01
Solubility:	7.35 x 10 ⁰⁴ mg/L at 20°C	03
Henry's Law Constant:	8.8 x 10 ⁻⁰⁵ atm • m ³ /mol [UT]	03
Log K_{ow}:	-0.92	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8030	5
8031	10
8240	NA
8260	5
8316	NA



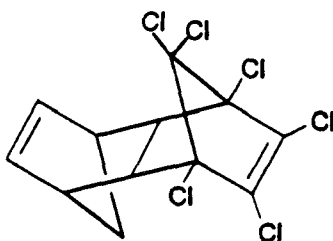
Aldrin

CAS Name: 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1 α ,4 α ,4 β ,5 α ,8 α ,8 β)-

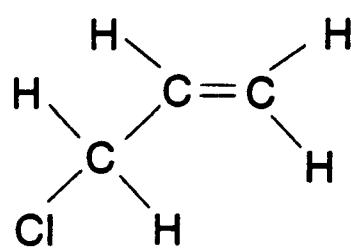
CAS Number:	309-00-2	REF
Empirical Formula:	C ₁₂ H ₈ Cl ₆	
MCL:	NA	
Molecular Weight:	364.91 g/mol	01
Melting Point:	104 °C	01
Boiling Point:	NA	
Vapor Pressure:	2.3 x 10 ⁻⁰⁵ mm Hg at 20°C	03
Specific Gravity:	1.70 at 20/4°C	04
Solubility:	1.7 x 10 ⁻⁰² mg/L at 25°C	03
Henry's Law Constant:	4.96 x 10 ⁻⁰⁴ atm • m ³ /mol at 25°C	03
Log K_{ow}:	5.11	03

Possible SW-846 Analytical Methods

Method	EQL(μ g/L)
8080	0.04
8081	0.34
8250	19
8270	NA
8275	NA



Allyl chloride

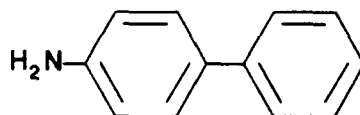
CAS Name: 1-Propene, 3-chloro-											
CAS Number: 107-05-1	REF 01 02 01 03 01 03 06 03										
Empirical Formula: C ₃ H ₅ Cl											
MCL: NA											
Molecular Weight: 76.53 g/mol											
Melting Point: -134.5°C											
Boiling Point: 45°C											
Vapor Pressure: 3.40 x 10 ⁰² mm Hg at 20°C											
Specific Gravity: 0.9376 at 20/4°C											
Solubility: 3.6 x 10 ⁰³ mg/L [UT]											
Henry's Law Constant: 9.072 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	06										
Log K_{ow}: 0.96	03										
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL (µg/L)</th></tr> </thead> <tbody> <tr> <td>8010</td><td>NA</td></tr> <tr> <td>8240</td><td>5</td></tr> <tr> <td>8260</td><td>NA</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL (µg/L)	8010	NA	8240	5	8260	NA
Possible SW-846 Analytical Methods											
Method	EQL (µg/L)										
8010	NA										
8240	5										
8260	NA										
											

4-Aminobiphenyl**CAS Name:** [1,1'-Biphenyl]-4-amine

CAS Number:	92-67-1	REF
Empirical Formula:	C ₁₂ H ₁₁ N	
MCL:	NA	
Molecular Weight:	169.23 g/mol	01
Melting Point:	53-54 °C	01
Boiling Point:	302 °C	01
Vapor Pressure:	6 x 10 ⁻⁰⁵ mm Hg at 20-30°C	04
Specific Gravity:	1.160 at 20/20°C	04
Solubility:	slightly soluble	03
Henry's Law Constant:	3.89 x 10 ⁻¹⁰ atm • m ³ /mol at 25°C	04
Log K_{ow}:	2.78	04

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8250	NA
8270	20

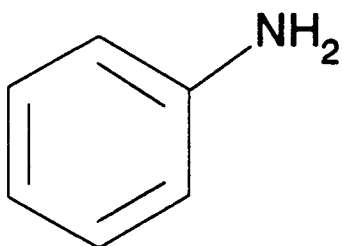


Aniline; Benzeneamine ****CAS Name:** Benzenamine

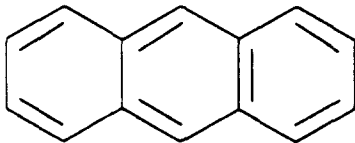
CAS Number:	62-53-3	REF
Empirical Formula:	C ₆ H ₇ N	
MCL:	NA	
Molecular Weight:	93.13 g/mol	01
Melting Point:	-6.3°C	01
Boiling Point:	184 °C	01
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 35°C	03
Specific Gravity:	1.02173 at 20/4°C	01
Solubility:	3.5 x 10 ⁰⁴ mg/L at 25°C	03
Henry's Law Constant:	1.36 x 10 ⁻⁰¹ atm • m ³ /mol at 25°C	04
Log K_{ow}:	0.90	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8250	NA
8270	NA



Anthracene

CAS Name: Anthracene		
CAS Number:	120-12-7	REF 01 02 01 04 01 03 03 03
Empirical Formula:	C ₁₄ H ₁₀	
MCL:	NA	
Molecular Weight:	178.23 g/mol	
Melting Point:	218°C	
Boiling Point:	340°C	
Vapor Pressure:	1.95 x 10 ⁻⁰⁴ mm Hg at 25°C	
Specific Gravity:	1.283 at 25/4°C	
Solubility:	1.29 x 10 ⁰⁰ mg/L at 25°C	
Henry's Law Constant:	8.6 x 10 ⁻⁰⁵ atm • m ³ /mol at 25°C	
Log K_{ow}:	4.45	
Possible SW-846 Analytical Methods		
Method	EQL(µg/L)	
8100	NA	
8250	19	
8270	10	
8310	6.6	

Antimony

CAS Name: Antimony		
CAS Number:	7440-36-0	REF
Empirical Formula:	Sb	
MCL:	0.006 mg/L	11
Molecular Weight:	121.75 g/mol	01
Melting Point:	630.5 °C	01
Boiling Point:	1750°C	01
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 886°C	03
Specific Gravity:	6.684 at 25°C	01
Solubility:	insoluble	03
Henry's Law Constant:	NA	
Log K_{ow}:	NA	
Possible SW-846 Analytical Methods		
Method	EQL(µg/L)	Sb
6010	NA	
6020	NA	
7040	NA	
7041	NA	
7062	NA	

Aramite **

CAS Name: Sulfurous acid, 2-chloroethyl 2-{4-(1,1-dimethylethyl)phenoxy}-1-methylene ester

CAS Number: 140-57-8

REF

Empirical Formula: C₁₅H₂₃ClO₄S

MCL: NA

Molecular Weight: 334.86 g/mol

01

Melting Point: -37.3°C

01

Boiling Point: 195 °C at 2 mm Hg

01

Vapor Pressure: NA

Specific Gravity: 1.145 at 20/20°C

01

Solubility: NA

Henry's Law Constant: NA

Log K_{ow}: NA

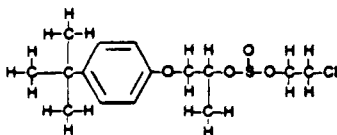
Possible SW-846 Analytical Methods

Method

EQL(μg/L)

8270

20



Arsenic

CAS Name: Arsenic															
CAS Number: 7440-38-2	REF														
Empirical Formula: As															
MCL: 0.05 mg/L	10														
Molecular Weight: 74.9216 g/mol	01														
Melting Point: 817 °C at 28 atm	01														
Boiling Point: sublimes at 613°C	01														
Vapor Pressure: 1×10^{00} mm Hg at 372°C	03														
Specific Gravity: 5.727 at 14°C	01														
Solubility: insoluble	03														
Henry's Law Constant: NA															
Log K_{ow}: NA															
<table> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(μg/L)</th></tr> <tr> <td>6010</td><td>NA</td></tr> <tr> <td>6020</td><td>NA</td></tr> <tr> <td>7060</td><td>NA</td></tr> <tr> <td>7061</td><td>NA</td></tr> <tr> <td>7062</td><td>NA</td></tr> </table>		Possible SW-846 Analytical Methods		Method	EQL(μ g/L)	6010	NA	6020	NA	7060	NA	7061	NA	7062	NA
Possible SW-846 Analytical Methods															
Method	EQL(μ g/L)														
6010	NA														
6020	NA														
7060	NA														
7061	NA														
7062	NA														
As															

Barium**CAS Name:** Barium**CAS Number:** 7440-39-3**REF****Empirical Formula:** Ba**MCL:** 2 mg/L

09

Molecular Weight: 137.33 g/mol

01

Melting Point: 725 °C

01

Boiling Point: 1640°C

01

Vapor Pressure: 1.0×10^{01} mm Hg at 1049°C

03

Specific Gravity: 3.51 at 20°C

01

Solubility: Hydrolyzes

03

Henry's Law Constant: NA**Log K_{ow} :** NA**Possible SW-846 Analytical Methods****Method** **EQL(μ g/L)**

6010 NA

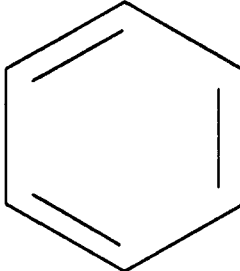
6020 NA

7080 NA

7081 NA

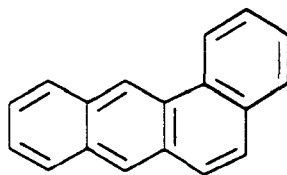
Ba

Benzene

CAS Name: Benzene													
CAS Number:	71-43-2												
Empirical Formula:	C_6H_6												
MCL:	0.005 mg/L												
Molecular Weight:	78.11 g/mol												
Melting Point:	5.5°C												
Boiling Point:	80.1°C												
Vapor Pressure:	9.5×10^{01} mm Hg at 25°C												
Specific Gravity:	0.8765 at 20/4°C												
Solubility:	1.78×10^{03} mg/L at 20°C												
Henry's Law Constant:	5.55×10^{-03} atm • m ³ /mol at 25°C												
Log K_{ow}:	2.13												
<table> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(μg/L)</th></tr> <tr> <td>8020</td><td>2</td></tr> <tr> <td>8021</td><td>0.09</td></tr> <tr> <td>8240</td><td>5</td></tr> <tr> <td>8260</td><td>5</td></tr> </table>		Possible SW-846 Analytical Methods		Method	EQL(μ g/L)	8020	2	8021	0.09	8240	5	8260	5
Possible SW-846 Analytical Methods													
Method	EQL(μ g/L)												
8020	2												
8021	0.09												
8240	5												
8260	5												
													
REF													
	08												
	01												
	01												
	01												
	03												
	01												
	03												
	03												
	03												

Benzo[a]anthracene; Benzanthracene

CAS Name: Benz[a]anthracene	
CAS Number: 56-55-3	REF
Empirical Formula: C ₁₈ H ₁₂	
MCL: NA	
Molecular Weight: 228.29 g/mol	01
Melting Point: 162 °C	01
Boiling Point: sublimes at 435°C	01
Vapor Pressure: 5 x 10 ⁻⁰⁹ mm Hg at 20°C	03
Specific Gravity: 1.274 at 20/4°C	04
Solubility: 1.0 x 10 ⁻⁰² mg/L at 24°C	03
Henry's Law Constant: 6.6 x 10 ⁻⁰⁷ atm • m ³ /mol [UT]	04
Log K_{ow}: 5.61	03
Possible SW-846 Analytical Methods	
Method	EQL(µg/L)
8100	NA
8250	78
8270	10
8310	0.13

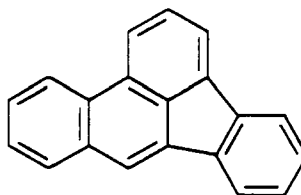


Benzo(b)fluoranthene**CAS Name:** Benz[e]acephenanthrylene

CAS Number:	205-99-2	REF
Empirical Formula:	C ₂₀ H ₁₂	
MCL:	0.0002 mg/L	11
Molecular Weight:	252.32 g/mol	01
Melting Point:	168 °C	01
Boiling Point:	NA	
Vapor Pressure:	5 x 10 ⁻⁰⁷ mm Hg at 20°C	04
Specific Gravity:	NA	
Solubility:	1.2 x 10 ⁻⁰³ mg/L at 25°C	04
Henry's Law Constant:	1.2 x 10 ⁻⁰⁶ atm • m ³ /mol at 20-25°C	04
Log K_{ow}:	6.57	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8100	NA
8250	48
8270	10
8310	0.18



Benzo(k)fluoranthene**CAS Name:** Benzo(k)fluoranthene**CAS Number:** 207-08-9**REF****Empirical Formula:** C₂₀H₁₂**MCL:** NA**Molecular Weight:** 252.32 g/mol

01

Melting Point: 217 °C

01

Boiling Point: 480 °C

01

Vapor Pressure: 9.59 x 10⁻¹¹ mm Hg at 20°C

03

Specific Gravity: NA**Solubility:** 5.5 x 10⁻⁰⁴ mg/L at 25°C

04

Henry's Law Constant: 1.04 x 10⁻⁰³ atm • m³/mol [UT]

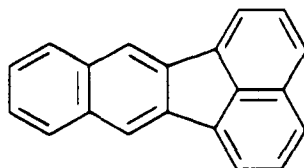
04

Log K_{ow}: 6.84

03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8100	NA
8250	25
8270	10
8275	NA
8310	0.17



Benzo[ghi]perylene**CAS Name:** Benzo[ghi]perylene**CAS Number:** 191-24-2**Empirical Formula:** C₂₂H₁₂**MCL:** NA**Molecular Weight:** 276.34 g/mol**Melting Point:** 222 °C**Boiling Point:** > 500 °C**Vapor Pressure:** 1 x 10⁻¹⁰ mm Hg at 20°C**Specific Gravity:** NA**Solubility:** 2.6 x 10⁻⁴ mg/L at 25°C**Henry's Law Constant:** 1.4 x 10⁻⁰⁷ atm • m³/mol at 25°C**Log K_{ow}:** 7.23**REF**

04

04

04

03

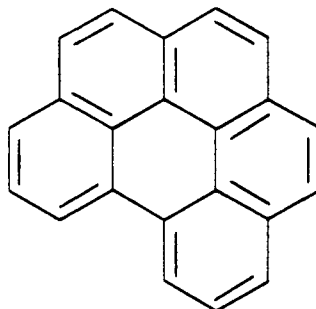
03

04

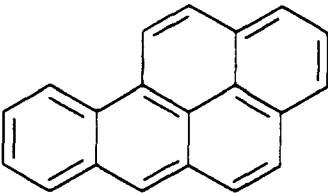
03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8100	NA
8250	41
8270	10
8310	0.76



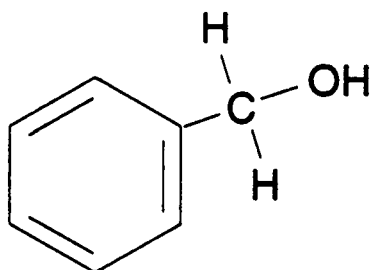
Benzo(a)pyrene

CAS Name: Benzo(a)pyrene		
CAS Number:	50-32-8	REF
Empirical Formula:	C ₂₀ H ₁₂	
MCL:	0.002 mg/L	11
Molecular Weight:	252.32 g/mol	01
Melting Point:	179-179.3°C	01
Boiling Point:	310-312°C at 10 mm Hg	01
Vapor Pressure:	5 x 10 ⁻⁰⁹ mm Hg at 20°C	03
Specific Gravity:	1.351 [UT]	04
Solubility:	3.8 x 10 ⁻⁰³ mg/L at 25°C	03
Henry's Law Constant:	4.9 x 10 ⁻⁰⁷ atm • m ³ /mol at 25°C	03
Log K_{ow}:	5.98	03
Possible SW-846 Analytical Methods		
Method	EQL(μg/L)	
8100	NA	
8250	25	
8270	10	
8275	NA	
8310	0.23	

Benzyl alcohol**CAS Name:** Benzenemethanol

CAS Number:	100-51-6	REF
Empirical Formula:	C ₇ H ₈ O	
MCL:	NA	
Molecular Weight:	108.14 g/mol	01
Melting Point:	-15.3 °C	01
Boiling Point:	205.3 °C	01
Vapor Pressure:	1.5 x 10 ⁻⁰¹ mm Hg at 25°C	03
Specific Gravity:	1.0419 at 24/4°C	01
Solubility:	3.5 x 10 ⁰⁴ mg/L at 20°C	03
Henry's Law Constant:	NA	
Log K_{ow}:	1.10	04

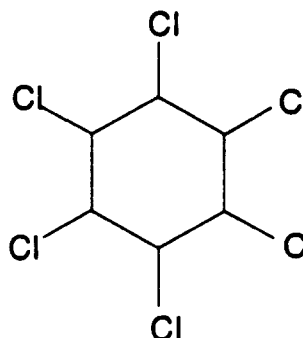
Possible SW-846 Analytical Methods	
Method	EQL (µg/L)
8250	NA
8270	20



Beryllium

CAS Name: Beryllium		
CAS Number:	7440-41-7	REF
Empirical Formula:	Be	
MCL:	0.004 mg/L	
Molecular Weight:	9.01218 g/mol	
Melting Point:	1278 ± 5°C	
Boiling Point:	2970°C at 5 mm Hg	
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 1520°C	
Specific Gravity:	1.85 at 20°C	
Solubility:	insoluble	
Henry's Law Constant:	NA	
Log K_{ow}:	NA	
Possible SW-846 Analytical Methods		Be
Method	EQL(µg/L)	
6010	NA	
6020	NA	
7090	NA	
7091	NA	

alpha-BHC

CAS Name: Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5beta,6beta)-		
CAS Number:	319-84-6	REF
Empirical Formula:	C ₆ H ₆ Cl ₆	
MCL:	NA	
Molecular Weight:	290.83 g/mol	
Melting Point:	159-160°C	
Boiling Point:	288 °C	
Vapor Pressure:	6 x 10 ⁻⁰² mm Hg at 40°C	
Specific Gravity:	~1.87 [UT]	
Solubility:	1.63 x 10 ⁰⁰ mg/L at 25°C	
Henry's Law Constant:	5.3 x 10 ⁻⁰⁶ atm • m ³ /mol at 20°C	04
Log K_{ow}:	3.81	03
Possible SW-846 Analytical Methods		
Method	EQL (µg/L)	
8080	0.03	
8081	0.35	
8121	0.11	
8250	NA	
8270	NA	

beta-BHC

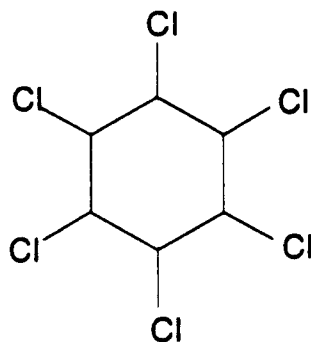
CAS Name: Cyclohexane, 1,2,3,4,5,6-hexachloro-
(1alpha,2beta,3alpha,4beta,5alpha,6beta)-

CAS Number:	319-85-7	REF
Empirical Formula:	C ₆ H ₆ Cl ₆	
MCL:	NA	
Molecular Weight:	290.83 g/mol	01
Melting Point:	sublimes at 314-315°C	01
Boiling Point:	60°C at 0.50 mm Hg	01
Vapor Pressure:	1.7 x 10 ⁻⁰¹ mm Hg at 40°C	03
Specific Gravity:	1.89 at 19°C	01
Solubility:	7.0 x 10 ⁻⁰¹ mg/L at 25°C	03
Henry's Law Constant:	2.3 x 10 ⁻⁰⁷ atm • m ³ /mol at 20°C	04
Log K_{ow}:	3.8	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
--------	-----------

8080	0.06
8081	0.23
8121	0.31
8250	42
8270	NA

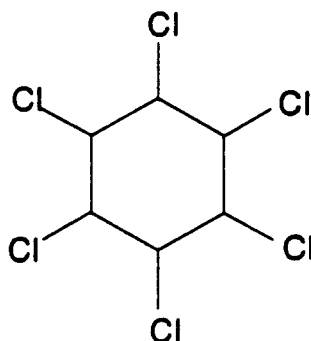


delta-BHC

CAS Name:	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3alpha,4beta,5alpha,6beta)-	
CAS Number:	319-86-8	REF
Empirical Formula:	C ₆ H ₆ Cl ₆	
MCL:	NA	
Molecular Weight:	290.83 g/mol	
Melting Point:	141-142 °C	
Boiling Point:	60°C at 0.36 mm Hg	
Vapor Pressure:	2 x 10 ⁻⁰² mm Hg at 20°C	
Specific Gravity:	~1.87 [UT]	
Solubility:	2.13 x 10 ⁰¹ mg/L at 25°C	
Henry's Law Constant:	2.5 x 10 ⁻⁰⁷ atm • m ³ /mol at 20-25°C	04
Log K_{ow}:	4.14	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8080	0.09
8081	0.24
8121	0.2
8250	31
8270	NA



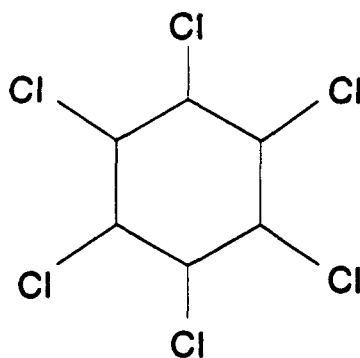
gamma-BHC; Lindane

CAS Name: Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(1alpha,2alpha,3beta,4alpha,5alpha,6beta)-

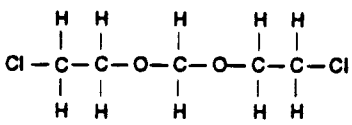
CAS Number:	58-89-9	REF
Empirical Formula:	C ₆ H ₆ Cl ₆	
MCL:	0.0002 mg/L	08
Molecular Weight:	290.83 g/mol	01
Melting Point:	112-113 °C	01
Boiling Point:	323.4 °C	01
Vapor Pressure:	9.4 x 10 ⁻⁶ mm Hg at 20°C	03
Specific Gravity:	1.891 at 19/4°C	04
Solubility:	7.0 x 10 ⁰⁰ at 20°C	03
Henry's Law Constant:	4.93 x 10 ⁻⁰⁷ atm • m ³ /mol at 25°C	03
Log K_{ow}:	3.24	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8080	0.04
8081	0.25
8121	0.230
8250	NA



Bis(2-chloroethoxy)methane

CAS Name: Ethane],1,1'-[methylenebis(oxy)]bis[2-chloro-		
CAS Number:	111-91-1	REF
Empirical Formula:	C ₅ H ₁₀ Cl ₂ O ₂	
MCL:	NA	
Molecular Weight:	173.04 g/mol	
Melting Point:	-32.8 °C	
Boiling Point:	218.1 °C	
Vapor Pressure:	<1 x 10 ⁻⁰¹ mm Hg at 20°C	
Specific Gravity:	1.2339 at 20/20°C	
Solubility:	8.1 x 10 ⁰⁴ mg/L at 25°C	
Henry's Law Constant:	3.78 x 10 ⁻⁰⁷ atm • m ³ /mol [UT]	
Log K_{ow}:	1.26	
Possible SW-846 Analytical Methods		
Method	EQL(µg/L)	
8010	NA	
8110	NA	
8250	53	
8270	10	

Bis(2-chloroethyl)ether; Dichloroethylether**CAS Name:** Ethane],1,1'-oxybis[2-chloro-**CAS Number:** 111-44-4**REF****Empirical Formula:** C₄H₈Cl₂O**MCL:** NA**Molecular Weight:** 143.01 g/mol

01

Melting Point: -24.5 °C

01

Boiling Point: 178°C

01

Vapor Pressure: 7.1 x 10⁻⁰¹ mm Hg at 20°C

03

Specific Gravity: 1.2199 at 20/4°C

01

Solubility: 1.02 x 10⁰⁴ mg/L [UT]

03

Henry's Law Constant: 1.3 x 10⁻⁰⁵ atm • m³/mol at 20°C

03

Log K_{ow}: 1.58

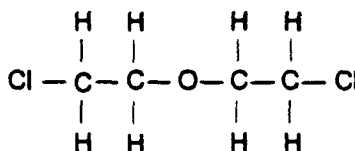
03

Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

8110 NA

8250 57

8270 10

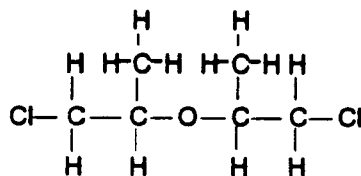


Bis(2-chloro-1-methylethyl)ether**CAS Name:** Propane],2,2'-oxybis[1-chloro-

CAS Number:	108-60-1	REF
Empirical Formula:	C ₆ H ₁₂ Cl ₂ O	
MCL:	NA	
Molecular Weight:	171.07 g/mol	04
Melting Point:	96.8-101.8°C	04
Boiling Point:	187 °C	04
Vapor Pressure:	8.5 x 10 ⁻⁰¹ mm Hg at 20°C	03
Specific Gravity:	1.103 at 20/4°C	04
Solubility:	1.7 x 10 ⁰³ mg/L [UT]	03
Henry's Law Constant:	1.1 x 10 ⁻⁰⁴ atm • m ³ /mol [UT]	04
Log K_{ow}:	2.58	04

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8110	NA
8250	57
8270	10



Bis(2-ethylhexyl)phthalate**CAS Name:** 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester**CAS Number:** 117-81-7**REF****Empirical Formula:** $C_{24}H_{38}O_4$ **MCL:** 0.006

11

Molecular Weight: 390.54 g/mol

02

Melting Point: -55 °C

05

Boiling Point: 385 °C

05

Vapor Pressure: 1.2×10^{00} mm Hg at 200°C

03

Specific Gravity: 0.99 at 20/20°C

05

Solubility: 4×10^{-01} mg/L at 25°C

03

Henry's Law Constant: 3×10^{-07} atm • m³/mol at 20°C

03

Log K_{ow} : 5.3

03

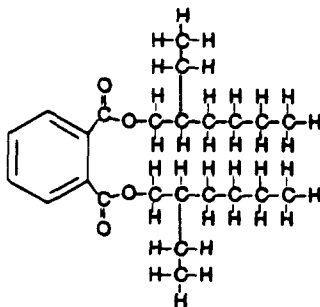
Possible SW-846 Analytical Methods**Method** **EQL(μ g/L)**

8060 20/200

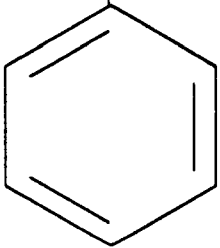
8061 2.7

8250 25

8270 10



Bromobenzene *

CAS Name: Benzene, bromo-		
CAS Number:	108-86-1	REF
Empirical Formula:	C ₆ H ₅ Br	
MCL:	NA	
Molecular Weight:	157.01 g/mol	
Melting Point:	-30.8 °C	
Boiling Point:	156 °C	
Vapor Pressure:	3.3 x 10 ⁰⁰ mm Hg at 20°C	
Specific Gravity:	1.4950 at 20/4°C	
Solubility:	4.5 x 10 ⁰² mg/L at 30°C	
Henry's Law Constant:	2.086 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	06
Log K_{ow}:	2.99	03
Possible SW-846 Analytical Methods		Br 
Method	EQL(μg/L)	
8010	NA	
8021	0.06/0.3	
8260	5	

Bromochloromethane; Chlorobromomethane ***CAS Name:** Methane, bromochloro-**CAS Number:** 74-97-5**REF****Empirical Formula:** CH₂BrCl**MCL:** NA**Molecular Weight:** 129.39 g/mol

01

Melting Point: -86.5 °C

01

Boiling Point: 68.1°C

01

Vapor Pressure: 1.16 x 10⁰² mm Hg at 20°C

03

Specific Gravity: 1.9344 at 20/4°C

01

Solubility: 1.7 x 10⁰⁴ mg/L at 25°C

03

Henry's Law Constant: 1.44 x 10⁻⁰³ atm • m³/mol at 24-25°C

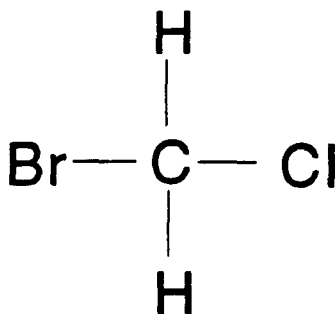
04

Log K_{ow}: 1.41 at 25°C

03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8021	0.1
8240	NA
8260	5

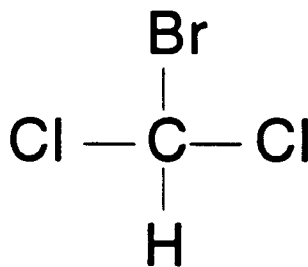


Bromodichloromethane; Dichlorobromomethane

CAS Name:	Methane, bromodichloro-	
CAS Number:	75-27-4	REF
Empirical Formula:	CHBrCl ₂	
MCL:	NA	
Molecular Weight:	163.83 g/mol	01
Melting Point:	-57.1 °C	01
Boiling Point:	90°C	01
Vapor Pressure:	5.0 x 10 ⁰¹ mm Hg at 20°C	03
Specific Gravity:	1.980 at 20/4°C	01
Solubility:	4.5 x 10 ⁰³ mg/L at 0°C	04
Henry's Law Constant:	2.12 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	03
Log K_{ow}:	1.88	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8010	1.0
8240	5
8260	5



Bromoform; Tribromomethane

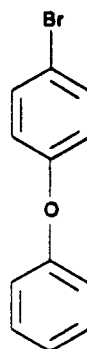
CAS Name: Methane, tribromo-		
CAS Number:	75-25-2	REF 01 01 01 03 01 03 03
Empirical Formula:	CHBr ₃	
MCL:	NA	
Molecular Weight:	252.73 g/mol	
Melting Point:	8.3 °C	
Boiling Point:	149.5 °C	
Vapor Pressure:	5.6 x 10 ⁰⁰ mm Hg at 25°C	
Specific Gravity:	2.8899 [UT]	
Solubility:	3.2 x 10 ⁰³ mg/L at 30°C	
Henry's Law Constant:	5.32 x 10 ⁻⁰⁴ atm • m ³ /mol at 25°C	03
Log K_{ow}:	2.30	03
Possible SW-846 Analytical Methods		<chem>BrC(Br)Br</chem>
Method	EQL(µg/L)	
8010	2.0	
8021	16	
8240	5	
8260	5	

4-Bromophenyl phenyl ether**CAS Name:** Benzene, 1-bromo-4-phenoxy-

CAS Number:	101-55-3	REF
Empirical Formula:	C ₁₂ H ₉ BrO	
MCL:	NA	
Molecular Weight:	249.11 g/mol	01
Melting Point:	18.7°C	01
Boiling Point:	310.1 °C	01
Vapor Pressure:	1.5 x 10 ⁻⁰³ mm Hg at 20°C	04
Specific Gravity:	1.4208 at 20/4°C	01
Solubility:	NA	
Henry's Law Constant:	1 x 10 ⁻⁰⁴ atm • m ³ /mol [UT]	04
Log K_{ow}:	4.28	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8110	NA
8250	19
8270	10



n-Butylbenzene ***CAS Name:** Benzene, butyl-**CAS Number:** 104-51-8**REF****Empirical Formula:** C₁₀H₁₄**MCL:** NA**Molecular Weight:** 134.22 g/mol

01

Melting Point: -88 °C

01

Boiling Point: 183°C

01

Vapor Pressure: 1 x 10⁰⁰ mm Hg at 23°C

03

Specific Gravity: 0.8601 at 20/4°C

01

Solubility: 1.4 x 10⁰¹ mg/L [UT]

03

Henry's Law Constant: 1.25 x 10⁻⁰² atm • m³/mol at 25°C

04

Log K_{ow}: 4.2

03

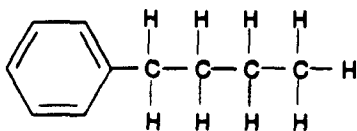
Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8021

0.2

8260

5



sec-Butylbenzene ***CAS Name:** Benzene, (1-methylpropyl)-**CAS Number:** 135-98-8**Empirical Formula:** C₁₀H₁₄**MCL:** NA**Molecular Weight:** 134.22 g/mol**Melting Point:** -75 °C**Boiling Point:** 173 °C**Vapor Pressure:** 1.1 x 10⁰⁰ mm Hg at 20°C**Specific Gravity:** 0.8621 at 20/4°C**Solubility:** 3.2 x 10⁰² mg/L [UT]**Henry's Law Constant:** 1.14 x 10⁻⁰² atm • m³/mol at 25°C**Log K_{ow}:** 4.24**REF**

01

01

01

03

01

03

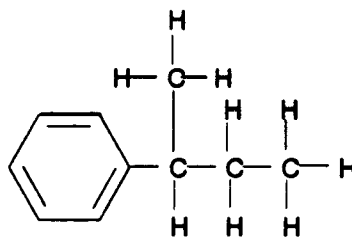
04

04

Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

8021 0.2

8260 5



tert-Butylbenzene ***CAS Name:** Benzene, (1,1-dimethylethyl)-**CAS Number:** 98-06-6**REF****Empirical Formula:** C₁₀H₁₄**MCL:** NA**Molecular Weight:** 134.22 g/mol

01

Melting Point: -57.8 °C

01

Boiling Point: 169 °C

01

Vapor Pressure: 1.5 x 10⁰⁰ mm Hg at 20°C

03

Specific Gravity: 0.8665 at 20/4°C

01

Solubility: 2.9 x 10⁰² mg/L [UT]

03

Henry's Law Constant: 1.17 x 10⁻⁰² atm • m³/mol at 25°C

04

Log K_{ow}: 4.11

03

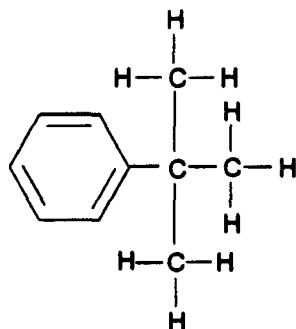
Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8021

0.6

8260

5

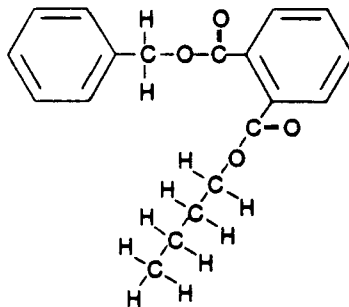


Butyl benzyl phthalate; Benzyl butyl phthalate**CAS Name:** 1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester

CAS Number:	85-68-7	REF
Empirical Formula:	C ₁₉ H ₂₀ O ₄	
MCL:	NA	
Molecular Weight:	312.4 g/mol	05
Melting Point:	<-35 °C	05
Boiling Point:	370°C	05
Vapor Pressure:	8.6 x 10 ⁻⁰⁶ mm Hg at 20°C	03
Specific Gravity:	1.1 at 25/25°C	05
Solubility:	2.9 x 10 ⁰⁰ mg/L [UT]	03
Henry's Law Constant:	NA	
Log K_{ow}:	4.78	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8060	3.4/150
8061	0.42
8250	25
8270	10



Cadmium

CAS Name: Cadmium

CAS Number: 7440-43-9

Empirical Formula: Cd

MCL: 0.005 mg/L

Molecular Weight: 112.41 g/mol

Melting Point: 320.9 °C

Boiling Point: 765 °C

Vapor Pressure: NA

Specific Gravity: 8.642 [UT]

Solubility: insoluble

Henry's Law Constant: NA

Log K_{ow}: NA

REF

08

01

01

01

01

03

Possible SW-846 Analytical Methods

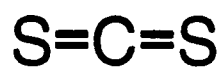
Method	EQL(μg/L)
6010	NA
6020	NA
7130	NA
7131	NA

Cd

Carbon disulfide**CAS Name:** Carbon disulfide

CAS Number:	75-15-0	REF
Empirical Formula:	CS ₂	
MCL:	NA	
Molecular Weight:	76.13 g/mol	01
Melting Point:	-111.5°C	01
Boiling Point:	46.2°C	01
Vapor Pressure:	2.98 x 10 ⁰² mm Hg at 20°C	03
Specific Gravity:	1.2632 at 20/4°C	01
Solubility:	2.9 x 10 ⁰³ mg/L at 20°C	03
Henry's Law Constant:	1.921 x 10 ⁻⁰² atm • m ³ /mol at 25°C	06
Log K_{ow}:	2.16	03

Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
8240	100

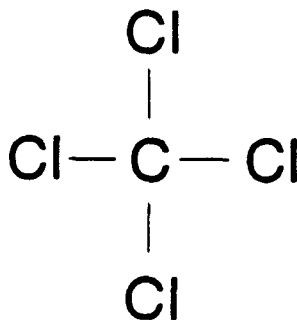


Carbon tetrachloride**CAS Name:** Methane, tetrachloro-

CAS Number:	56-23-5	REF
Empirical Formula:	CCl ₄	
MCL:	0.005 mg/L	08
Molecular Weight:	153.82 g/mol	01
Melting Point:	-23 °C	01
Boiling Point:	76.5°C	01
Vapor Pressure:	1.13 x 10 ⁰² mm Hg at 25°C	03
Specific Gravity:	1.5940 at 20/4°C	01
Solubility:	8.0 x 10 ⁰² mg/L at 20°C	03
Henry's Law Constant:	2.93 x 10 ⁻⁰² atm • m ³ /mol at 25°C	03
Log K_{ow}:	2.73	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8010	1.2
8021	0.1
8240	5
8260	5



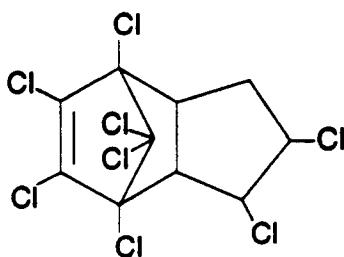
Chlordane

CAS Name: 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-

CAS Number:	57-74-9	REF
Empirical Formula:	C ₁₀ H ₆ Cl ₈	
MCL:	0.002 mg/L	08
Molecular Weight:	409.80 g/mol	02
Melting Point:	<25°C	04
Boiling Point:	175°C at 2 mm Hg	04
Vapor Pressure:	1 x 10 ⁻⁰⁶ mm Hg at 25°C	03
Specific Gravity:	1.59-1.63 at 25°C	02
Solubility:	5.6 x 10 ⁻⁰² mg/L [UT]	03
Henry's Law Constant:	4.79 x 10 ⁻⁰⁵ atm • m ³ /mol at 25°C	03
Log K_{ow}:	2.78	03

Possible SW-846 Analytical Methods

Method	EQL (μg/L)
8080	0.14
8081	0.37 (gamma)
8250	NA
8270	NA



p-Chloroaniline ****CAS Name:** Benzenamine, 4-chloro-**CAS Number:** 106-47-8**REF****Empirical Formula:** C₆H₆ClN**MCL:** NA**Molecular Weight:** 127.57 g/mol

01

Melting Point: 72.5°C

01

Boiling Point: 232 °C

01

Vapor Pressure: 1.5 x 10⁻⁰² mm Hg at 20°C

03

Specific Gravity: 1.429 at 19/4°C

01

Solubility: 3.9 x 10⁰³ mg/L at 20-25°C

04

Henry's Law Constant: 1.07 x 10⁻⁰⁵ atm • m³/mol at 25°C

04

Log K_{ow}: 1.83

03

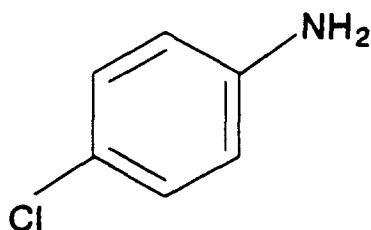
Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8250

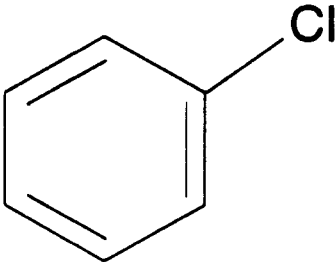
NA

8270

20



Chlorobenzene

CAS Name: Benzene, chloro-															
CAS Number: 108-90-7	REF														
Empirical Formula: C_6H_5Cl															
MCL: 0.1 mg/L	08														
Molecular Weight: 112.56 g/mol	01														
Melting Point: -45.6 °C	01														
Boiling Point: 132 °C	01														
Vapor Pressure: 1.18×10^{-1} mm Hg at 25°C	03														
Specific Gravity: 1.1058 at 20/4°C	01														
Solubility: 4.88×10^{-2} mg/L at 25°C	03														
Henry's Law Constant: 3.93×10^{-3} atm • m ³ /mol at 25°C	03														
Log K_{ow}: 2.84	03														
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL (µg/L)</th></tr> </thead> <tbody> <tr> <td>8010</td><td>2.5</td></tr> <tr> <td>8020</td><td>2.0</td></tr> <tr> <td>8021</td><td>0.03/0.1</td></tr> <tr> <td>8240</td><td>5</td></tr> <tr> <td>8260</td><td>5</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL (µg/L)	8010	2.5	8020	2.0	8021	0.03/0.1	8240	5	8260	5
Possible SW-846 Analytical Methods															
Method	EQL (µg/L)														
8010	2.5														
8020	2.0														
8021	0.03/0.1														
8240	5														
8260	5														
															

Chlorobenzilate**CAS Name:** Benzeneacetic acid, 4-chloro- α -(4-chlorophenyl)- α -hydroxy-, ethyl ester**CAS Number:** 510-15-6**REF****Empirical Formula:** $C_{16}H_{14}Cl_2O_3$ **MCL:** NA**Molecular Weight:** 325.20 g/mol

02

Melting Point: NA**Boiling Point:** 146-148 °C at 0.04 mm Hg

02

Vapor Pressure: 2.2×10^{-6} mm Hg at 20°C

03

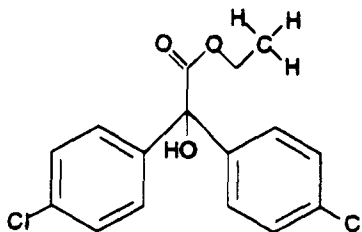
Specific Gravity: NA**Solubility:** 1.0×10^{01} mg/L at 20°C

03

Henry's Law Constant: NA**Log K_{ow} :** NA**Possible SW-846 Analytical Methods****Method****EQL(μ g/L)**

8270

10

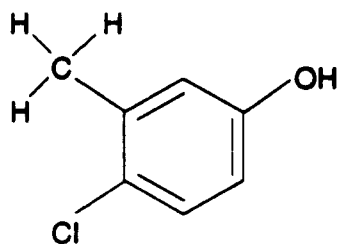


p-Chloro-m-cresol; 4-Chloro-3-methylphenol**CAS Name:** Phenol, 4-chloro-3-methyl-

CAS Number:	59-50-7	REF
Empirical Formula:	C ₇ H ₇ ClO	
MCL:	NA	
Molecular Weight:	142.58 g/mol	01
Melting Point:	66-68 °C	01
Boiling Point:	235 °C	01
Vapor Pressure:	5 x 10 ⁻⁰² mm Hg at 20°C	04
Specific Gravity:	NA	
Solubility:	3.85 x 10 ⁰³ mg/L at 20°C	03
Henry's Law Constant:	2.5 x 10 ⁻⁰⁶ atm • m ³ /mol at 20°C	03
Log K_{ow}:	3.10	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8040	3.6
8250	30
8270	20



Chloroethane; Ethyl chloride

CAS Name: Ethane, chloro-	
CAS Number: 75-00-3	REF 01 01 01 04 01 03 06 03
Empirical Formula: C ₂ H ₅ Cl	
MCL: NA	
Molecular Weight: 64.51 g/mol	
Melting Point: -136.4°C	
Boiling Point: 12.3°C	
Vapor Pressure: 1.011 x 10 ⁰³ mm Hg at 20°C	
Specific Gravity: 0.8978 at 20/4°C	
Solubility: 5.74 x 10 ⁰³ mg/L at 20°C	
Henry's Law Constant: 6.919 x 10 ⁻⁰³ atm • m ³ /mol at 20°C	
Log K_{ow}: 1.43	
Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
8010	5.2
8021	1.0
8240	10
8260	5

H

H

|

|

H — C — C — Cl

|

|

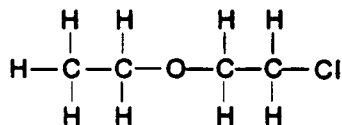
H

H

2-Chloroethyl ethyl ether ***CAS Name:** Ethane, 1-chloro-2-ethoxy-

CAS Number:	628-34-2	REF
Empirical Formula:	C ₄ H ₉ ClO	
MCL:	NA	
Molecular Weight:	108.57 g/mol	12
Melting Point:	NA	
Boiling Point:	107 °C	12
Vapor Pressure:	NA	
Specific Gravity:	0.989 [UT]	12
Solubility:	NA	
Henry's Law Constant:	NA	
Log K_{ow}:	NA	

Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
NA	



Chloroform; Trichloromethane**CAS Name:** Methane, trichloro-**CAS Number:** 67-66-3**REF****Empirical Formula:** CHCl_3 **MCL:** NA**Molecular Weight:** 119.38 g/mol

01

Melting Point: -63.5 °C

01

Boiling Point: 61.7°C

01

Vapor Pressure: 1.60×10^2 mm Hg at 20°C

03

Specific Gravity: 1.4832 at 20/4°C

01

Solubility: 9.3×10^3 mg/L at 25°C

03

Henry's Law Constant: 3.39×10^{-3} atm • m³/mol at 25°C

03

Log K_{ow} : 1.97

03

Possible SW-846 Analytical Methods**Method****EQL($\mu\text{g/L}$)**

8010

0.5

8021

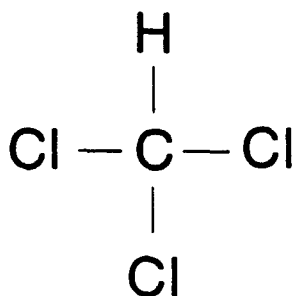
0.2

8240

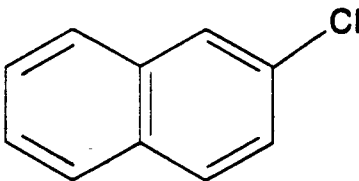
5

8260

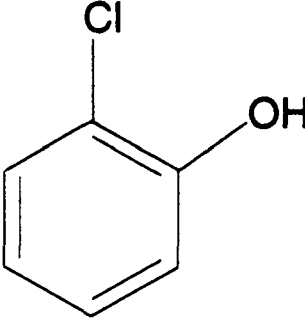
5



2-Chloronaphthalene

CAS Name: Naphthalene, 2-chloro-		
CAS Number:	91-58-7	REF
Empirical Formula:	C ₁₀ H ₇ Cl	
MCL:	NA	
Molecular Weight:	162.62 g/mol	
Melting Point:	61°C	
Boiling Point:	256 °C	
Vapor Pressure:	1.7 x 10 ⁻⁰² mm Hg at 20°C	
Specific Gravity:	1.1377 at 71/4°C	
Solubility:	6.74 x 10 ⁰⁰ mg/L at 25°C	
Henry's Law Constant:	6.12 x 10 ⁻⁰⁴ atm • m ³ /mol [UT]	04
Log K_{ow}:	4.12	03
Possible SW-846 Analytical Methods		
Method	EQL(µg/L)	
8120	9.4	
8121	13	
8250	19	
8270	10	

2-Chlorophenol

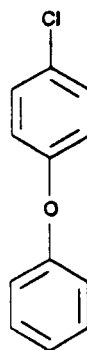
CAS Name: Phenol, 2-chloro-	
CAS Number: 95-57-8	REF
Empirical Formula: C ₆ H ₅ ClO	
MCL: NA	
Molecular Weight: 128.56 g/mol	01
Melting Point: 9.0 °C	01
Boiling Point: 174.9 °C	01
Vapor Pressure: 4.0 x 10 ⁰¹ mm Hg at 82°C	03
Specific Gravity: 1.2634 at 20/4°C	01
Solubility: 2.85 x 10 ⁰⁴ mg/L at 20°C	03
Henry's Law Constant: 1.03 x 10 ⁻⁰⁵ atm • m ³ /mol at 20°C	03
Log K_{ow}: 2.15	03
Possible SW-846 Analytical Methods	
Method	EQL(µg/L)
8040	3.1
8250	33
8270	10
8275	NA
	

4-Chlorophenyl phenyl ether**CAS Name:** Benzene, 1-chloro-4-phenoxy-

CAS Number:	7005-72-3	REF
Empirical Formula:	C ₁₂ H ₉ ClO	
MCL:	NA	
Molecular Weight:	204.66 g/mol	01
Melting Point:	-8°C	04
Boiling Point:	284-285 °C	01
Vapor Pressure:	2.7 x 10 ⁻⁰³ mm Hg at 25°C	03
Specific Gravity:	1.2026 at 15°C	01
Solubility:	3.3 x 10 ⁰⁰ mg/L at 25°C	03
Henry's Law Constant:	2.2 x 10 ⁻⁰⁴ atm • m ³ /mol [UT]	04
Log K_{ow}:	4.08	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8110	NA
8250	42
8270	10



Chloroprene; 2-Chloro-1,3-butadiene ****CAS Name:** 1,3-Butadiene, 2-chloro-**CAS Number:** 126-99-8**REF****Empirical Formula:** C₄H₅Cl**MCL:** NA**Molecular Weight:** 88.54 g/mol

01

Melting Point: -130°C

04

Boiling Point: 59.4°C

01

Vapor Pressure: 2.0 x 10⁰² mm Hg at 20°C

03

Specific Gravity: 0.9583 at 20/4°C

01

Solubility: NA**Henry's Law Constant:** 3.20 x 10⁻⁰² atm • m³/mol [UT]

.04

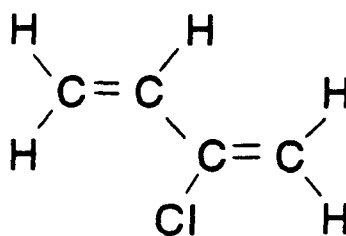
Log K_{ow}: 0.57

03

Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

8010 NA

8240 5

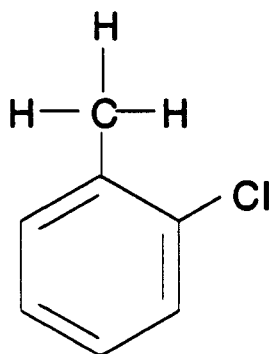


2-Chlorotoluene ***CAS Name:** Benzene, 1-chloro-2-methyl-

CAS Number:	95-49-8	REF
Empirical Formula:	C ₇ H ₇ Cl	
MCL:	NA	
Molecular Weight:	126.59 g/mol	01
Melting Point:	-35.1 °C	01
Boiling Point:	159.1 °C	01
Vapor Pressure:	2.7 x 10 ⁰⁰ mm Hg at 20°C	03
Specific Gravity:	1.0825 at 20/4°C	01
Solubility:	slightly soluble	03
Henry's Law Constant:	NA	
Log K_{ow}:	3.42	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8021	0.1
8260	5



4-Chlorotoluene ***CAS Name:** Benzene, 1-chloro-4-methyl-**CAS Number:** 106-43-4**Empirical Formula:** C₇H₇Cl**MCL:** NA**Molecular Weight:** 126.59 g/mol**Melting Point:** 7.5°C**Boiling Point:** 162°C**Vapor Pressure:** 2.6 x 10⁰⁰ mm Hg at 20°C**Specific Gravity:** 1.0697 at 20/4°C**Solubility:** slightly soluble**Henry's Law Constant:** NA**Log K_{ow}:** 3.33**REF**

01

01

01

03

01

03

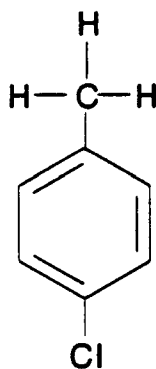
03

Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

8010 NA

8021 0.2/0.1

8260 5



Chromium

CAS Name: Chromium		
CAS Number:	7440-47-3	REF 08 01 01 01 03 01 03
Empirical Formula:	Cr	
MCL:	0.1 mg/L	
Molecular Weight:	51.996 g/mol	
Melting Point:	1857 ± 20°C	
Boiling Point:	2672°C	
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 1616°C	
Specific Gravity:	7.20 at 28°C	
Solubility:	insoluble	
Henry's Law Constant:	NA	
Log K_{ow}:	NA	
Possible SW-846 Analytical Methods		Cr
Method	EQL(μg/L)	
6010	NA	
6020	NA	
7190	NA	
7191	NA	

Chrysene**CAS Name:** Chrysene**CAS Number:** 218-01-9**REF****Empirical Formula:** C₁₈H₁₂**MCL:** NA**Molecular Weight:** 228.29 g/mol

01

Melting Point: 255-256 °C

01

Boiling Point: 448 °C

01

Vapor Pressure: 6.3 x 10⁻⁰⁹ mm Hg at 25°C

03

Specific Gravity: 1.274 at 20°C

01

Solubility: 6 x 10⁻⁰³ mg/L at 25°C

03

Henry's Law Constant: 1.05 x 10⁻⁰⁶ atm • m³/mol at 25°C

03

Log K_{ow}: 5.61

03

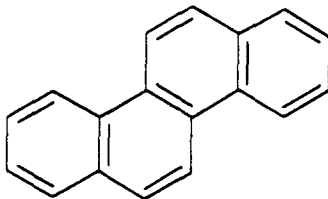
Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

8100 NA

8250 25

8270 10

8310 1.5



Cobalt

CAS Name: Cobalt		
CAS Number:	7440-48-4	REF
Empirical Formula:	Co	
MCL:	NA	
Molecular Weight:	58.9332 g/mol	
Melting Point:	1495°C	
Boiling Point:	2870°C	
Vapor Pressure:	3.0×10^{01} mm Hg at 2375°C	
Specific Gravity:	8.9 [UT]	
Solubility:	insoluble	
Henry's Law Constant:	NA	
Log K_{ow}:	NA	
Possible SW-846 Analytical Methods		Co
Method	EQL(μ g/L)	
6010	NA	
6020	NA	
7200	NA	
7201	NA	

Copper**CAS Name:** Copper**CAS Number:** 7440-50-8**Empirical Formula:** Cu**MCL:** NA**Molecular Weight:** 63.546 g/mol**Melting Point:** 1083.4 ± 0.2°C**Boiling Point:** 2567°C**Vapor Pressure:** 1 × 10⁰⁰ mm Hg at 1628°C**Specific Gravity:** 8.92[UT]**Solubility:** insoluble**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

01

01

01

03

01

03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
6010	NA
6020	NA
7210	NA
7211	NA

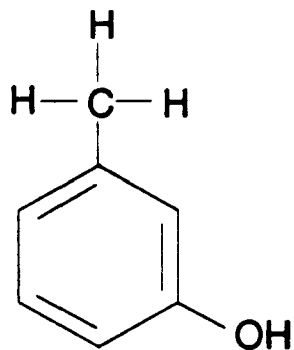
Cu

m-Cresol; 3-Methylphenol

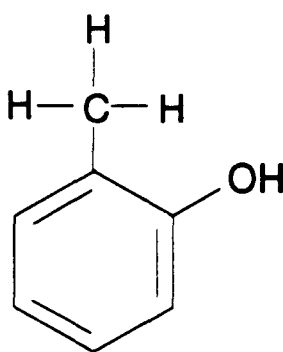
CAS Name: Phenol, 3-methyl-	
CAS Number: 108-39-4	REF
Empirical Formula: C ₇ H ₈ O	
MCL: NA	
Molecular Weight: 108.14 g/mol	
Melting Point: 11.5 °C	
Boiling Point: 202.2 °C	
Vapor Pressure: 1.1 x 10 ⁻⁰¹ mm Hg at 20°C	
Specific Gravity: 1.0336 at 20/4°C	
Solubility: 2.5 x 10 ⁰⁴ mg/L [UT]	
Henry's Law Constant: 7.090 x 10 ⁻⁰⁷ atm • m ³ /mol at 20°C	06
Log K_{ow}: 1.96	03

Possible SW-846 Analytical Methods

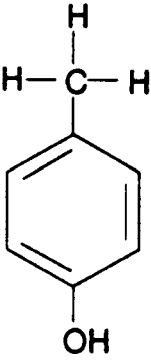
Method	EQL(µg/L)
8270	10



***o*-Cresol; 2-Methylphenol**

CAS Name: Phenol, 2-methyl-									
CAS Number: 95-48-7	REF								
Empirical Formula: C ₇ H ₈ O									
MCL: NA									
Molecular Weight: 108.14 g/mol	01								
Melting Point: 30.9°C	01								
Boiling Point: 191°C	01								
Vapor Pressure: 2.4 x 10 ⁻⁰¹ mm Hg at 25°C	03								
Specific Gravity: 1.0273 at 20/4°C	01								
Solubility: 3.1 x 10 ⁰⁴ mg/L at 40°C	03								
Henry's Law Constant: 8.410 x 10 ⁻⁰⁷ atm • m ³ /mol at 20°C	06								
Log K_{ow}: 1.95	03								
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(μg/L)</th></tr> </thead> <tbody> <tr> <td>8250</td><td>NA</td></tr> <tr> <td>8270</td><td>10</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(μg/L)	8250	NA	8270	10
Possible SW-846 Analytical Methods									
Method	EQL(μg/L)								
8250	NA								
8270	10								
									

p-Cresol; 4-Methylphenol

CAS Name: Phenol, 4-methyl-		
CAS Number:	106-44-5	REF
Empirical Formula:	C ₇ H ₈ O	
MCL:	NA	
Molecular Weight:	108.14 g/mol	
Melting Point:	34.8°C	
Boiling Point:	201.9 °C	
Vapor Pressure:	1.1 x 10 ⁻⁰¹ mm Hg at 25°C	
Specific Gravity:	1.0178 at 20/4°C	
Solubility:	2.4 x 10 ⁰⁴ mg/L at 40°C	
Henry's Law Constant:	3.920 x 10 ⁻⁰⁷ atm • m ³ /mol at 20°C	06
Log K_{ow}:	1.92	04
Possible SW-846 Analytical Methods		
Method	EQL(μg/L)	
8250	NA	
8270	10	

Cyanide

CAS Name: Cyanide

CAS Number: 57-12-5

REF

Empirical Formula: CN

MCL: 0.2 mg/L

11

Molecular Weight: 26.0177 g/mol

01

Melting Point: NA

Boiling Point: NA

Vapor Pressure: NA

Specific Gravity: NA

Solubility: NA

Henry's Law Constant: NA

Log K_{ow}: NA

Possible SW-846 Analytical Methods

Method **EQL(μg/L)**

9010 NA

9012 NA

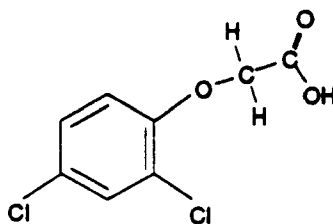


2,4-D; 2,4-Dichlorophenoxyacetic acid**CAS Name:** Acetic acid, (2,4-dichlorophenoxy)-

CAS Number:	94-75-7	REF
Empirical Formula:	C ₈ H ₆ Cl ₂ O ₃	
MCL:	0.07 mg/L	08
Molecular Weight:	221.04 g/mol	01
Melting Point:	140-141°C	01
Boiling Point:	160°C at 0.4 mm Hg	01
Vapor Pressure:	4 x 10 ⁻⁰¹ mm Hg at 160°C	03
Specific Gravity:	1.416 at 25°C	05
Solubility:	8.9 x 10 ⁰² mg/L at 25°C	03
Henry's Law Constant:	1.95 x 10 ⁻⁰² atm • m ³ /mol at 20°C	04
Log K_{ow}:	2.81	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8150	12
8151	0.2

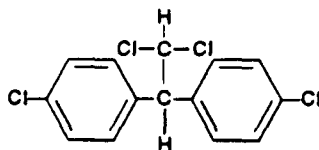


4,4'-DDD**CAS Name:** Benzene], 1,1'-(2,2-dichloroethylidene)bis[4-chloro-

CAS Number:	72-54-8	REF
Empirical Formula:	C ₁₄ H ₁₀ Cl ₄	
MCL:	NA	
Molecular Weight:	320.05 g/mol	02
Melting Point:	109 - 110 °C	02
Boiling Point:	193 °C	04
Vapor Pressure:	1 x 10 ⁻⁰⁶ mm Hg at 30°C	03
Specific Gravity:	1.476 at 20/4°C	04
Solubility:	1.6 x 10 ⁻⁰¹ mg/L at 24°C	03
Henry's Law Constant:	2.16 x 10 ⁻⁰⁵ atm • m ³ /mol [UT]	04
Log K_{ow}:	5.99	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8080	0.11
8081	0.50
8250	28
8270	NA

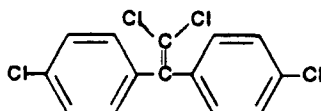


4,4'-DDE**CAS Name:** Benzene], 1,1'-(dichloroethenylidene)bis[4-chloro-

CAS Number:	72-55-9	REF
Empirical Formula:	C ₁₄ H ₈ Cl ₄	
MCL:	NA	
Molecular Weight:	319.03 g/mol	04
Melting Point:	88-90 °C	04
Boiling Point:	NA	
Vapor Pressure:	6.5 x 10 ⁻⁰⁶ mm Hg at 20°C	03
Specific Gravity:	NA	
Solubility:	4.0 x 10 ⁻⁰² mg/L at 20°C	03
Henry's Law Constant:	2.34 x 10 ⁻⁰⁵ atm • m ³ /mol [UT]	04
Log K_{ow}:	5.69	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8080	0.04
8081	0.58
8270	NA



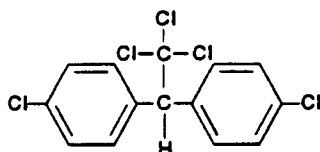
4,4'-DDT

CAS Name: Benzene], 1,1'-(2,2,2-trichloroethylidene)
bis[4-chloro-

CAS Number:	50-29-3	REF
Empirical Formula:	C ₁₄ H ₉ Cl ₅	
MCL:	NA	
Molecular Weight:	354.49 g/mol	01
Melting Point:	108-109°C	01
Boiling Point:	260°C	01
Vapor Pressure:	1.5 x 10 ⁻⁰⁷ mm Hg at 20°C	02
Specific Gravity:	1.56 at 15/4°C	04
Solubility:	3.1 x 10 ⁻⁰³ mg/L at 25°C	03
Henry's Law Constant:	3.89 x 10 ⁻⁰⁵ atm • m ³ /mol at 25°C	03
Log K_{ow}:	6.19	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8080	0.12
8081	0.81
8250	47
8270	NA



Diallate

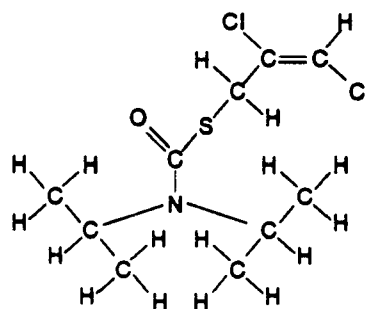
CAS Name: Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl) ester

CAS Number:	2303-16-4	REF
Empirical Formula:	C ₁₀ H ₁₇ Cl ₂ NOS	
MCL:	NA	
Molecular Weight:	270.24 g/mol	02
Melting Point:	NA	
Boiling Point:	150 °C at 9 mm Hg	02
Vapor Pressure:	1.5 x 10 ⁻⁰⁴ mm Hg at 25°C	03
Specific Gravity:	NA	
Solubility:	1.4 x 10 ⁰¹ mg/L at 25°C	03
Henry's Law Constant:	NA	
Log K_{ow}:	4.49	03

Possible SW-846 Analytical Methods

Method	EQL (µg/L)
--------	------------

8270	10
------	----



Dibenz(a,h)anthracene**CAS Name:** Dibenz(a,h)anthracene**CAS Number:** 53-70-3**REF****Empirical Formula:** C₂₂H₁₄**MCL:** NA**Molecular Weight:** 278.35 g/mol

01

Melting Point: 269-270°C

01

Boiling Point: 524°C

05

Vapor Pressure: -1×10^{-10} mm Hg at 20°C

04

Specific Gravity: 1.282 [UT]

04

Solubility: 5×10^{-4} mg/L at 25°C

03

Henry's Law Constant: 7.3×10^{-8} atm • m³/mol at 25°C

03

Log K_{ow}: 5.97

03

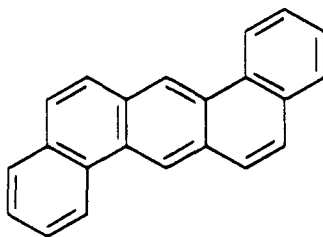
Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

8100 NA

8250 25

8270 10

8310 0.30



Dibenzofuran**CAS Name:** Dibenzofuran**CAS Number:** 132-64-9**Empirical Formula:** C₁₂H₈O**MCL:** NA**Molecular Weight:** 168.19 g/mol**Melting Point:** 86-87°C**Boiling Point:** 287°C**Vapor Pressure:** NA**Specific Gravity:** 1.0886 at 99/4°C**Solubility:** 1 x 10⁰¹ mg/L [UT]**Henry's Law Constant:** NA**Log K_{ow}:** 4.12**REF**

01

01

01

01

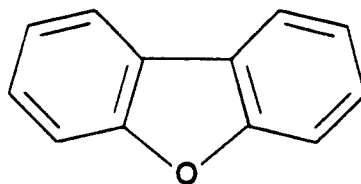
03

03

Possible SW-846 Analytical Methods**Method** **EQL (μg/L)**

8250 NA

8270 10



Dibromochloromethane; Chlorodibromomethane

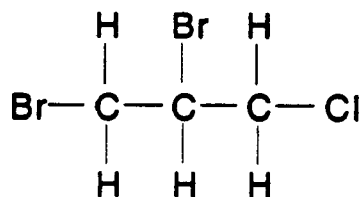
CAS Name: Methane, dibromochloro-	
CAS Number: 124-48-1	REF 01 04 01 03 03 03
Empirical Formula: CHBr ₂ Cl	
MCL: NA	
Molecular Weight: 208.28 g/mol	
Melting Point: -23-(-21)°C	
Boiling Point: 119-120 °C at 748 mm Hg	
Vapor Pressure: 1.5 x 10 ⁰¹ mm Hg at 10.5°C	
Specific Gravity: 2.451 at 20/4°C	
Solubility: NA	
Henry's Law Constant: 7.83 x 10 ⁻⁰⁴ atm • m ³ /mol at 25°C	03
Log K_{ow}: 2.09	03
Possible SW-846 Analytical Methods	
Method	EQL(µg/L)
8240	5
8260	5
Cl Br — C — Br H	

1,2-Dibromo-3-chloropropane; DBCP**CAS Name:** Propane, 1,2-dibromo-3-chloro

CAS Number:	96-12-8	REF
Empirical Formula:	C ₃ H ₅ Br ₂ Cl	
MCL:	0.0002 mg/L	08
Molecular Weight:	236.36 g/mol	02
Melting Point:	6.1°C	04
Boiling Point:	196°C	02
Vapor Pressure:	8 x 10 ⁻⁰¹ mm Hg at 21°C	02
Specific Gravity:	2.093 at 14°C	02
Solubility:	1 x 10 ⁰³ mg/L [UT]	03
Henry's Law Constant:	2.49 x 10 ⁻⁰⁴ atm • m ³ /mol at 20°C	04
Log K_{ow}:	2.63	04

Possible SW-846 Analytical Methods

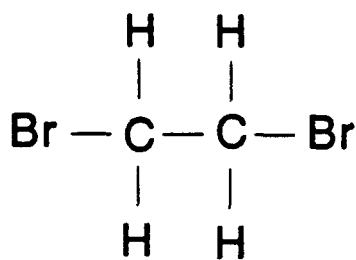
Method	EQL(μg/L)
8010	NA
8240	100
8260	5
8270	NA



1,2-Dibromoethane; Ethylene dibromide; EDB

CAS Name:	Ethane, 1,2-dibromo-	
CAS Number:	106-93-4	REF
Empirical Formula:	$C_2H_4Br_2$	
MCL:	0.00005 mg/L	08
Molecular Weight:	187.86 g/mol	01
Melting Point:	9.8 °C	01
Boiling Point:	131.3 °C	01
Vapor Pressure:	1.2×10^{01} mm Hg at 25°C	03
Specific Gravity:	2.1792 at 20/4°C	01
Solubility:	4.3×10^{03} mg/L at 25°C	03
Henry's Law Constant:	7.06×10^{-04} atm • m ³ /mol at 25°C	04
Log K_{ow}:	1.6	03

Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
8010	NA

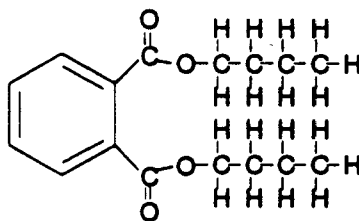


Di-n-butyl phthalate**CAS Name:** 1,2-Benzenedicarboxylic acid, dibutyl ester

CAS Number:	84-74-2	REF
Empirical Formula:	$C_{16}H_{22}O_4$	
MCL:	NA	
Molecular Weight:	278.35 g/mol	01
Melting Point:	-35 °C	05
Boiling Point:	340 °C	01
Vapor Pressure:	1×10^{-01} mm Hg at 115°C	03
Specific Gravity:	1.047 at 20/20°C	01
Solubility:	4×10^{02} mg/L at 25°C	03
Henry's Law Constant:	2.8×10^{-07} atm • m ³ /mol at 25°C	03
Log K_{ow}:	5.2	03

Possible SW-846 Analytical Methods

Method	EQL (μg/L)
8060	3.6/140
8061	3.3
8250	25
8270	10

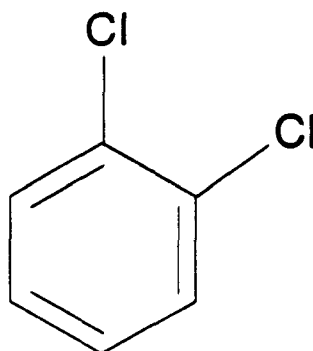


o-Dichlorobenzene; 1,2-Dichlorobenzene**CAS Name:** Benzene, 1,2-dichloro-

CAS Number:	95-50-1	REF
Empirical Formula:	C ₆ H ₄ Cl ₂	
MCL:	0.6 mg/L	08
Molecular Weight:	147.00 g/mol	01
Melting Point:	-17°C	01
Boiling Point:	180.5 °C	01
Vapor Pressure:	1.5 x 10 ⁰⁰ mm Hg at 25°C	03
Specific Gravity:	1.3048 at 20/4°C	01
Solubility:	1.45 x 10 ⁰² mg/L at 25°C	03
Henry's Law Constant:	2.951 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	06
Log K_{ow}:	3.38	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8010	1.5
8020	4.0
8021	0.5/0.2
8060	NA
8121	2.7
8250	19
8270	10

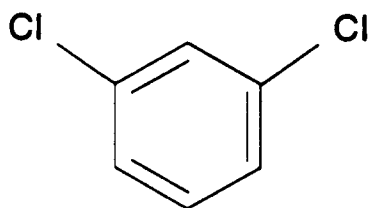


m-Dichlorobenzene; 1,3-Dichlorobenzene**CAS Name:** Benzene, 1,3-dichloro-

CAS Number:	541-73-1	REF
Empirical Formula:	C ₆ H ₄ Cl ₂	
MCL:	NA	
Molecular Weight:	147.00 g/mol	01
Melting Point:	-24.7 °C	01
Boiling Point:	173 °C	01
Vapor Pressure:	1.0 x 10 ⁰⁰ mm Hg at 12.1°C	03
Specific Gravity:	1.2884 at 20/4°C	01
Solubility:	1.23 x 10 ⁰² mg/L at 25°C	03
Henry's Law Constant:	3.241 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	06
Log K_{ow}:	3.38	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8010	3.2
8020	4.0
8021	0.2
8060	NA
8121	2.5
8250	19
8270	10



p-Dichlorobenzene; 1,4-Dichlorobenzene**CAS Name:** Benzene, 1,4-dichloro-**CAS Number:** 106-46-7**REF****Empirical Formula:** $C_6H_4Cl_2$ **MCL:** 0.075 mg/L

08

Molecular Weight: 147.00 g/mol

01

Melting Point: 53.1°C

01

Boiling Point: 174°C

01

Vapor Pressure: 1.8×10^{00} mm Hg at 30°C

03

Specific Gravity: 1.2475 at 20/4°C

01

Solubility: 7.9×10^{01} mg/L at 25°C

03

Henry's Law Constant: 4.328×10^{-03} atm • m³/mol at 25°C

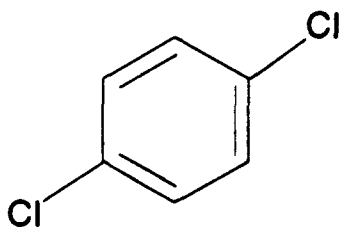
06

Log K_{ow} : 3.39

03

Possible SW-846 Analytical Methods

Method	EQL(μ g/L)
8010	2.4
8020	3.0
8021	0.07/0.1
8121	8.9
8250	44
8260	5
8270	10

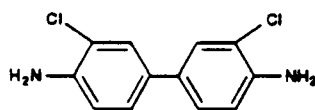


3,3'-Dichlorobenzidine**CAS Name:** [1,1'-Biphenyl]-4,4'-diamine,3,3'-dichloro-

CAS Number:	91-94-1	REF
Empirical Formula:	C ₁₂ H ₁₀ Cl ₂ N ₂	
MCL:	NA	
Molecular Weight:	253.13 g/mol	02
Melting Point:	132-133 °C	02
Boiling Point:	NA	
Vapor Pressure:	4.2 x 10 ⁻⁰⁷ mm Hg at 25°C	04
Specific Gravity:	NA	
Solubility:	3.1 x 10 ⁰⁰ mg/L at 25°C	03
Henry's Law Constant:	4.5 x 10 ⁻⁰⁸ atm • m ³ /mol at 25°C	04
Log K_{ow}:	3.51	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8250	165
8270	20



trans-1,4-Dichloro-2-butene**CAS Name:** 2-Butene, 1,4-dichloro-, (E)-**CAS Number:** 110-57-6**Empirical Formula:** $C_4H_6Cl_2$ **MCL:** NA**Molecular Weight:** 125.00 g/mol**Melting Point:** 1-3°C**Boiling Point:** 155.5°C at 758 mm Hg**Vapor Pressure:** NA**Specific Gravity:** 1.183 at 25/4°C**Solubility:** Insoluble**Henry's Law Constant:** NA**Log K_{ow} :** NA**REF**

01

01

01

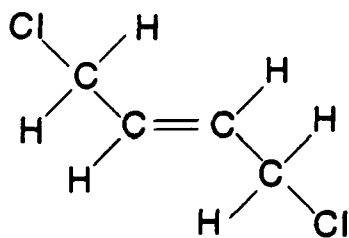
01

03

Possible SW-846 Analytical Methods**Method** **EQL(μ g/L)**

8010 NA

8240 100

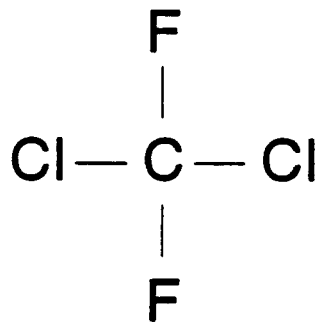


Dichlorodifluoromethane; CFC-12**CAS Name:** Methane, dichlorodifluoro-

CAS Number:	75-71-8	REF
Empirical Formula:	CCl ₂ F ₂	
MCL:	NA	
Molecular Weight:	120.91 g/mol	01
Melting Point:	-158°C	01
Boiling Point:	-29.8 °C	01
Vapor Pressure:	4.250 x 10 ⁰³ mm Hg at 20°C	03
Specific Gravity:	1.1834 at 57°C	01
Solubility:	2.8 x 10 ⁰² mg/L at 25°C	03
Henry's Law Constant:	3.904 x 10 ⁻⁰¹ atm • m ³ /mol at 25°C	06
Log K_{ow}:	2.16	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8010	NA
8021	0.5
8240	5
8260	5



1,1-Dichloroethane; Ethylidene chloride**CAS Name:** Ethane, 1,1-dichloro-**CAS Number:** 75-34-3**REF****Empirical Formula:** $C_2H_4Cl_2$ **MCL:** NA**Molecular Weight:** 98.96 g/mol

01

Melting Point: -97 °C

01

Boiling Point: 57.3°C

01

Vapor Pressure: 2.34×10^{02} mm Hg at 25°C

03

Specific Gravity: 1.1757 at 20/4°C

01

Solubility: 5.5×10^{03} mg/L at 20°C

03

Henry's Law Constant: 5.871×10^{-03} atm • m³/mol at 25°C

06

Log K_{ow} : 1.79

03

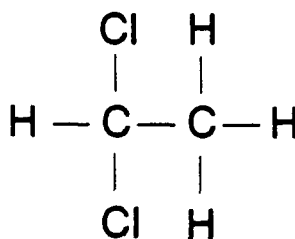
Possible SW-846 Analytical Methods**Method** **EQL(μ g/L)**

8010 0.7

8021 0.7

8240 5

8260 5



1,2-Dichloroethane; Ethylene dichloride

CAS Name: Ethane, 1,2-dichloro-	
CAS Number:	107-06-2
Empirical Formula:	C ₂ H ₄ Cl ₂
MCL:	0.005 mg/L
Molecular Weight:	98.96 g/mol
Melting Point:	-35.3 °C
Boiling Point:	83.5°C
Vapor Pressure:	7.9 x 10 ⁰¹ mm Hg at 25°C
Specific Gravity:	1.2351 at 20°C
Solubility:	8.69 x 10 ⁰³ mg/L at 20°C
Henry's Law Constant:	1.178 x 10 ⁻⁰³ atm • m ³ /mol at 25°C
Log K_{ow}:	1.45
Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
8010	0.3
8021	0.3
8240	5
8260	5

1,1-Dichloroethylene; Vinylidene chloride**CAS Name:** Ethene, 1,1-dichloro-**CAS Number:** 75-35-4**REF****Empirical Formula:** C₂H₂Cl₂**MCL:** 0.007 mg/L

08

Molecular Weight: 96.94 g/mol

01

Melting Point: -122.1°C

01

Boiling Point: 37°C

01

Vapor Pressure: 5.91 x 10⁰² mm Hg at 25°C

03

Specific Gravity: 1.218 at 20°C

01

Solubility: 2.1 x 10⁰² mg/L at 25°C

03

Henry's Law Constant: 2.286 x 10⁻⁰² atm • m³/mol at 25°C

06

Log K_{ow}: 1.48

03

Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8010

1.3

8021

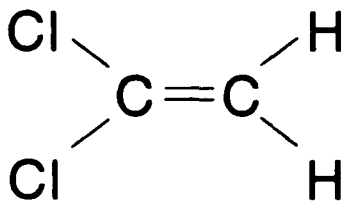
0.7

8240

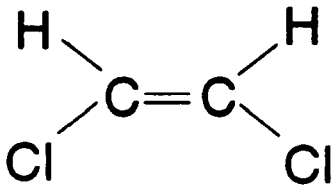
5

8260

5



cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene *

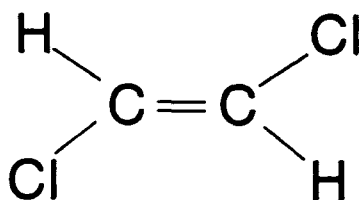
CAS Name: Ethene, 1,2-dichloro-, (Z)-							
CAS Number: 156-59-2	REF						
Empirical Formula: C ₂ H ₂ Cl ₂							
MCL: 0.07 mg/L	08						
Molecular Weight: 96.94 g/mol	01						
Melting Point: -80.5°C	01						
Boiling Point: 60.3°C	01						
Vapor Pressure: 2.02 x 10 ⁰² mm Hg at 25°C	03						
Specific Gravity: 1.2837 at 20/4°C	01						
Solubility: 8 x 10 ⁰² mg/L at 20°C	03						
Henry's Law Constant: 4.08 x 10 ⁻⁰³ atm • m ³ /mol at 24.8°C	03						
Log K_{ow}: NA							
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL (µg/L)</th></tr> </thead> <tbody> <tr> <td>8260</td><td>5</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL (µg/L)	8260	5
Possible SW-846 Analytical Methods							
Method	EQL (µg/L)						
8260	5						
							

trans-1,2-Dichloroethylene**CAS Name:** Ethene, 1, 2-dichloro-, (E) -

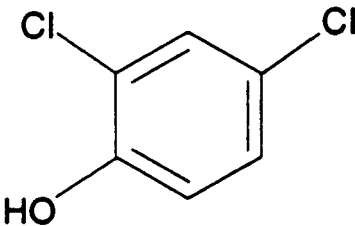
CAS Number:	156-60-5	REF
Empirical Formula:	C ₂ H ₂ Cl ₂	
MCL:	0.1 mg/L	08
Molecular Weight:	96.94 g/mol	01
Melting Point:	-50 °C	01
Boiling Point:	47.5 °C	01
Vapor Pressure:	3.31 x 10 ⁰² mm Hg at 25°C	03
Specific Gravity:	1.2565 at 20/4°C	01
Solubility:	6 x 10 ⁰² mg/L at 20°C	03
Henry's Law Constant:	6.673 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	06
Log K_{ow}:	1.48	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8010	1.0
8021	0.5/0.6
8240	5
8260	5



2,4-Dichlorophenol

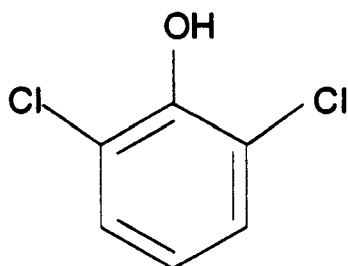
CAS Name: Phenol, 2,4-dichloro-													
CAS Number: 120-83-2	REF												
Empirical Formula: $C_6H_4Cl_2O$													
MCL: NA													
Molecular Weight: 163.00 g/mol	01												
Melting Point: 45°C	01												
Boiling Point: 210 °C	01												
Vapor Pressure: 1×10^{00} mm Hg at 53°C	03												
Specific Gravity: 1.40 at 15/4°C	04												
Solubility: 4.5×10^{03} mg/L at 25°C	03												
Henry's Law Constant: 2.8×10^{-06} atm • m ³ /mol at 20°C	03												
Log K_{ow}: 2.75	03												
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL (µg/L)</th></tr> </thead> <tbody> <tr> <td>8040</td><td>3.9</td></tr> <tr> <td>8250</td><td>27</td></tr> <tr> <td>8270</td><td>10</td></tr> <tr> <td>8275</td><td>NA</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL (µg/L)	8040	3.9	8250	27	8270	10	8275	NA
Possible SW-846 Analytical Methods													
Method	EQL (µg/L)												
8040	3.9												
8250	27												
8270	10												
8275	NA												
													

2,6-Dichlorophenol**CAS Name:** Phenol, 2,6-dichloro-

CAS Number:	87-65-0	REF
Empirical Formula:	C ₆ H ₄ Cl ₂ O	
MCL:	NA	
Molecular Weight:	163.00 g/mol	01
Melting Point:	68-69°C	01
Boiling Point:	219-220°C at 740 mm Hg	01
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 59.5°C	03
Specific Gravity:	NA	
Solubility:	NA	
Henry's Law Constant:	4 x 10 ⁻⁰⁵ atm • m ³ /mol [UT]	03
Log K_{ow}:	2.88	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8040	NA
8250	NA
8270	10

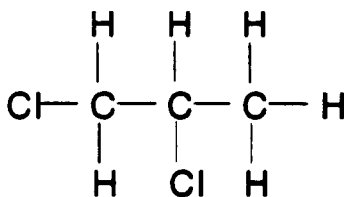


1,2-Dichloropropane; Propylene dichloride**CAS Name:** Propane, 1,2-dichloro-

CAS Number:	78-87-5	REF
Empirical Formula:	C ₃ H ₆ Cl ₂	
MCL:	0.005 mg/L	08
Molecular Weight:	112.99 g/mol	01
Melting Point:	-100.4°C	01
Boiling Point:	96.4°C	01
Vapor Pressure:	4.2 x 10 ⁰¹ mm Hg at 20°C	03
Specific Gravity:	1.1560 at 20/4°C	01
Solubility:	2.7 x 10 ⁰³ mg/L at 20°C	03
Henry's Law Constant:	2.675 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	06
Log K_{ow}:	2.28	03

Possible SW-846 Analytical Methods

Method	EQL (µg/L)
8010	0.4
8021	0.06
8240	5
8260	5



1,3-Dichloropropane; Trimethyl dichloride *

CAS Name: Propane, 1,3-dichloro-									
CAS Number: 142-28-9	REF								
Empirical Formula: C ₃ H ₆ Cl ₂									
MCL: NA									
Molecular Weight: 112.99 g/mol									
Melting Point: -99.5 °C									
Boiling Point: 120.4 °C									
Vapor Pressure: NA									
Specific Gravity: 1.1876 at 20/4°C									
Solubility: Slightly Soluble									
Henry's Law Constant: 9.921 x 10 ⁻⁰⁷ atm • m ³ /mol at 25°C	01								
Log K_{ow}: NA	01								
	01								
	01								
	06								
	03								
	06								
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(µg/L)</th></tr> </thead> <tbody> <tr> <td>8021</td><td>0.3</td></tr> <tr> <td>8260</td><td>5</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(µg/L)	8021	0.3	8260	5
Possible SW-846 Analytical Methods									
Method	EQL(µg/L)								
8021	0.3								
8260	5								
$ \begin{array}{ccccccc} & \text{H} & & \text{H} & & \text{H} & \\ & & & & & & \\ \text{Cl} & - \text{C} & - & \text{C} & - & \text{C} & - \text{Cl} \\ & & & & & & \\ & \text{H} & & \text{H} & & \text{H} & \end{array} $									

2,2-Dichloropropane; Isopropylidene chloride ***CAS Name:** Propane, 2,2-dichloro-**CAS Number:** 594-20-7**Empirical Formula:** C₃H₆Cl₂**MCL:** NA**Molecular Weight:** 112.99 g/mol**Melting Point:** -33.8 °C**Boiling Point:** 69.3°C**Vapor Pressure:** NA**Specific Gravity:** 1.1136 at 20/4°C**Solubility:** Insoluble**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

01

01

01

01

03

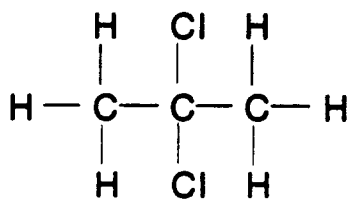
Possible SW-846 Analytical Methods**Method****EQL (µg/L)**

8021

0.5

8260

5



1,1-Dichloropropene ***CAS Name:** 1-Propene, 1,1-dichloro-**CAS Number:** 563-58-6**Empirical Formula:** C₃H₄Cl₂**MCL:** NA**Molecular Weight:** 110.97 g/mol**Melting Point:** NA**Boiling Point:** 76 - 77°C**Vapor Pressure:** NA**Specific Gravity:** 1.1864 at 25/4°C**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

01

01

01

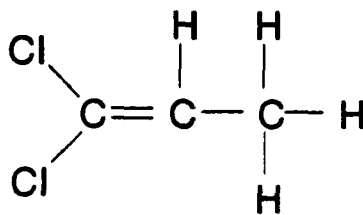
Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8021

0.2

8260

5

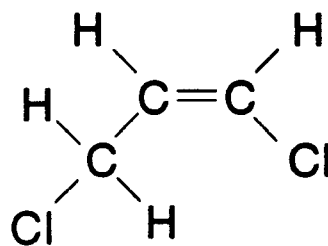


cis-1,3-Dichloropropene**CAS Name:** 1-Propene, (Z)-1,3-dichloro-

CAS Number:	10061-01-5	REF
Empirical Formula:	C ₃ H ₄ Cl ₂	
MCL:	NA	
Molecular Weight:	110.97 g/mol	01
Melting Point:	NA	
Boiling Point:	104.3 °C	01
Vapor Pressure:	4.3 x 10 ⁰¹ mm Hg [UT]	03
Specific Gravity:	1.217 at 20/4°C	01
Solubility:	2.7 x 10 ⁰³ mg/L [UT]	03
Henry's Law Constant:	3.55 x 10 ⁻⁰³ atm • m ³ /mol [UT]	04
Log K_{ow}:	1.41	04

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8021	NA
8260	5



trans-1,3-Dichloropropene**CAS Name:** 1 - Propene, (E)-1,3-dichloro-**CAS Number:** 10061-02-6**REF****Empirical Formula:** C₃H₄Cl₂**MCL:** NA**Molecular Weight:** 110.97 g/mol

01

Melting Point: NA**Boiling Point:** 112°C

01

Vapor Pressure: 3.4 x 10⁰¹ mm Hg [UT]

03

Specific Gravity: 1.224 at 20/4°C

01

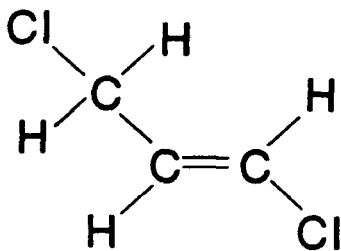
Solubility: 2.8 x 10⁰³ mg/L [UT]

03

Henry's Law Constant: NA**Log K_{ow}:** NA**Possible SW-846 Analytical Methods**
Method**EQL(μg/L)**

8260

5



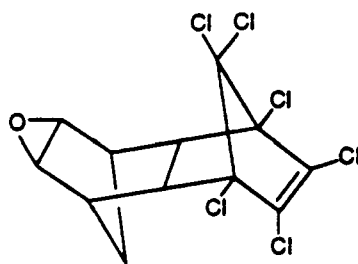
Dieldrin

CAS Name: 2,7,8-Trichloro-1,2,3,4,5,6,7,8-octahydro-1,4-methanonaphtho[2,3-b]pyrene, 1,4,5,6,8,9-hexachloro-1a,2,2a,3,6,8a,7,7a-octahydro-, (1a- α , 2 β , 2a- α , 3 β , 6 β , 8a- α , 7 β , 7a- α)-

CAS Number:	60-57-1	REF
Empirical Formula:	$C_{12}H_8Cl_6O$	
MCL:	NA	
Molecular Weight:	380.91 g/mol	01
Melting Point:	175-176 °C	01
Boiling Point:	decomposes	04
Vapor Pressure:	1.8×10^{-07} mm Hg at 25°C	03
Specific Gravity:	1.75 [UT]	01
Solubility:	1.86×10^{-01} mg/L at 20°C	03
Henry's Law Constant:	5.84×10^{-05} atm • m ³ /mol at 25°C	03
Log K_{ow}:	4.09	03

Possible SW-846 Analytical Methods

Method	EQL (μ g/L)
8080	0.02
8081	0.44
8250	25
8270	NA

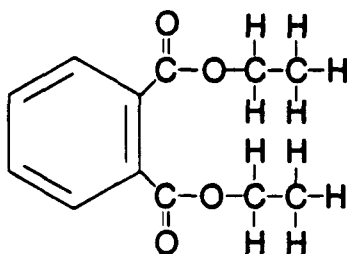


Diethyl phthalate**CAS Name:** 1,2-Benzenedicarboxylic acid, diethyl ester

CAS Number:	84-66-2	REF
Empirical Formula:	C ₁₂ H ₁₄ O ₄	
MCL:	NA	
Molecular Weight:	222.24 g/mol	01
Melting Point:	-40.5 °C	05
Boiling Point:	298 °C	01
Vapor Pressure:	5 x 10 ⁻⁰² mm Hg at 70°C	03
Specific Gravity:	1.1175 at 20/4°C	01
Solubility:	1.08 x 10 ⁰³ mg/L at 25°C	04
Henry's Law Constant:	8.46 x 10 ⁻⁰⁷ atm • m ³ /mol [UT]	04
Log K_{ow}:	2.96	03

Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
8060	4.9/310
8061	2.5
8250	19
8270	10

8060	4.9/310
8061	2.5
8250	19
8270	10

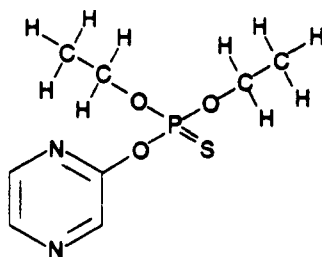


O,O-Diethyl O-2-pyrazinyl phosphorothioate****CAS Name:** Phosphorothioic acid, O,O-diethyl-O-pyrazinyl ester

CAS Number:	297-97-2	REF
Empirical Formula:	C ₈ H ₁₃ N ₂ O ₃ PS	
MCL:	NA	
Molecular Weight:	248.26 g/mol	
Melting Point:	-1.7°C	
Boiling Point:	80°C	
Vapor Pressure:	3 x 10 ⁻³ mm Hg at 30°C	
Specific Gravity:	NA	
Solubility:	Slightly Soluble	02
Henry's Law Constant:	NA	
Log K_{ow}:	NA	

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8270	NA



Dimethoate

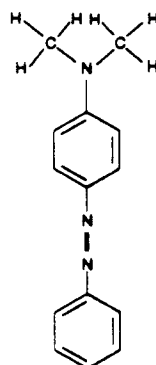
CAS Name: Phosphorodithioic acid, O,O-dimethyl-S-[2-(methylamino)-2-oxoethyl]ester	
CAS Number: 60-51-5	REF
Empirical Formula: C ₅ H ₁₂ NO ₃ PS ₂	
MCL: NA	
Molecular Weight: 229.28 g/mol	02
Melting Point: 52-52.5°C	02
Boiling Point: NA	
Vapor Pressure: 2.5 x 10 ⁻⁰² mm Hg at 25°C	05
Specific Gravity: 1.277 at 65°C	02
Solubility: 2.5 x 10 ⁰⁴ mg/L at 21°C	03
Henry's Law Constant: NA	
Log K_{ow}: 2.71	03

Possible SW-846 Analytical Methods		
Method	EQL(μg/L)	
8141	2.6	
8270	20	
8321	NA	

p-(Dimethylamino)azobenzene**CAS Name:** Benzenamine, N,N-dimethyl-4-(phenylazo)-

CAS Number:	60-11-7	REF
Empirical Formula:	C ₁₄ H ₁₅ N ₃	
MCL:	NA	
Molecular Weight:	225.28 g/mol	02
Melting Point:	114 - 117 °C	02
Boiling Point:	decomposes	03
Vapor Pressure:	NA	
Specific Gravity:	1.212 [UT]	04
Solubility:	Insoluble	02
Henry's Law Constant:	NA	
Log K_{ow}:	4.58	03

Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
8250	NA
8270	10



7,12-Dimethylbenz[a]anthracene**CAS Name:** Benz[a]anthracene, 7,12-**CAS Number:** 57-97-6**Empirical Formula:** C₂₀H₁₆**MCL:** NA**Molecular Weight:** 256.35 g/mol**Melting Point:** 122-123°C**Boiling Point:** NA**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** 6.1 x 10⁻⁰² mg/L [UT]**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

01

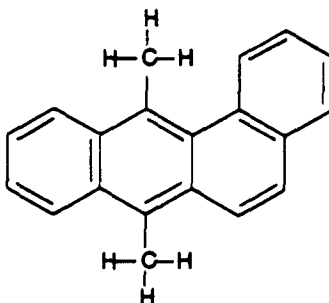
01

03

Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

8250 NA

8270 10



3,3'-Dimethylbenzidine**CAS Name:** [1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethyl-**CAS Number:** 119-93-7**Empirical Formula:** C₁₄H₁₆N₂**MCL:** NA**Molecular Weight:** 212.29 g/mol**Melting Point:** 131-132 °C**Boiling Point:** NA**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** Slightly Soluble**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

01

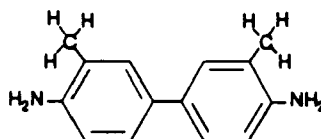
01

03

Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8270

10

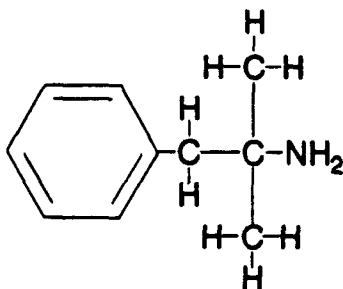


alpha, alpha-Dimethylphenethylamine ****CAS Name:** Benzeneethanamine, alpha, alpha-dimethyl

CAS Number:	122-09-8	REF
Empirical Formula:	C ₁₀ H ₁₅ N	
MCL:	NA	
Molecular Weight:	149.23 g/mol	02
Melting Point:	NA	
Boiling Point:	205°C at 750 mm Hg	02
Vapor Pressure:	NA	
Specific Gravity:	NA	
Solubility:	NA	
Henry's Law Constant:	NA	
Log K_{ow}:	NA	

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8250	NA
8270	NA



2,4-Dimethylphenol; m-Xylenol**CAS Name:** Phenol, 2,4-dimethyl-**CAS Number:** 105-67-9**REF****Empirical Formula:** C₈H₁₀O**MCL:** NA**Molecular Weight:** 122.17 g/mol

01

Melting Point: 27-28 °C

01

Boiling Point: 210 °C

01

Vapor Pressure: 9.8 x 10⁰¹ mm Hg at 104°C

03

Specific Gravity: 0.9650 at 20/4°C

01

Solubility: 7.868 x 10⁰³ mg/L at 25°C

04

Henry's Law Constant: 6.55 x 10⁻⁰⁶ atm • m³/mol at 25°C

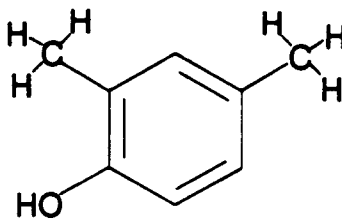
04

Log K_{ow}: 2.42

03

Possible SW-846 Analytical Methods

Method	EQL (µg/L)
8040	3.2
8250	27
8270	10



Dimethyl phthalate**CAS Name:** 1,2-Benzenedicarboxylic acid, dimethyl ester**CAS Number:** 131-11-3**REF****Empirical Formula:** $C_{10}H_{10}O_4$ **MCL:** NA**Molecular Weight:** 194.19 g/mol

01

Melting Point: 0-2°C

01

Boiling Point: 283.8 °C

01

Vapor Pressure: $<1 \times 10^{-02}$ mm Hg at 20°C

03

Specific Gravity: 1.1905 at 20/4°C

01

Solubility: 5×10^{03} mg/L at 20°C

03

Henry's Law Constant: 4.2×10^{-07} atm • m³/mol [UT]

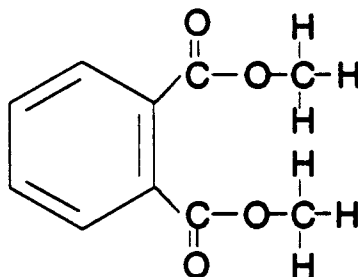
04

Log K_{ow} : 1.87

03

Possible SW-846 Analytical Methods

Method	EQL(μ g/L)
8060	2.9/190
8061	6.4
8250	16
8270	10

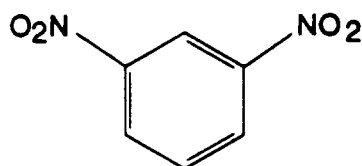


m-Dinitrobenzene**CAS Name:** Benzene, 1,3-dinitro-

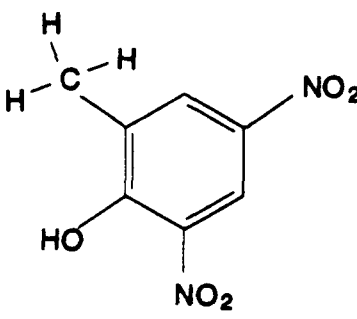
CAS Number:	99-65-0	REF
Empirical Formula:	$C_6H_4N_2O_4$	
MCL:	NA	
Molecular Weight:	168.11 g/mol	01
Melting Point:	90°C	01
Boiling Point:	291°C at 756 mm Hg	01
Vapor Pressure:	8.15×10^{-4} mm Hg at 35°C	04
Specific Gravity:	1.5751 at 18/4°C	01
Solubility:	4.69×10^{-2} mg/L at 15°C	03
Henry's Law Constant:	2.75×10^{-07} atm • m ³ /mol at 35°C	04
Log K_{ow}:	1.49	03

Possible SW-846 Analytical Methods

Method	EQL(μ g/L)
8270	20
8330	4



4,6-Dinitro o-cresol; 4,6-Dinitro-2-methylphenol

CAS Name: Phenol, 2-methyl-4,6-dinitro-									
CAS Number: 534-52-1	REF								
Empirical Formula: $C_7H_6N_2O_5$									
MCL: NA									
Molecular Weight: 198.14 g/mol									
Melting Point: 86.5°C									
Boiling Point: 312 °C									
Vapor Pressure: 1×10^{-4} mm Hg at 25°C									
Specific Gravity: NA									
Solubility: 1.3×10^{02} mg/L at 20°C									
Henry's Law Constant: 1.4×10^{-06} atm • m ³ /mol at 25°C									
Log K_{ow}: 2.85									
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(μg/L)</th></tr> </thead> <tbody> <tr> <td>8250</td><td>240</td></tr> <tr> <td>8270</td><td>50</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(μ g/L)	8250	240	8270	50
Possible SW-846 Analytical Methods									
Method	EQL(μ g/L)								
8250	240								
8270	50								
									

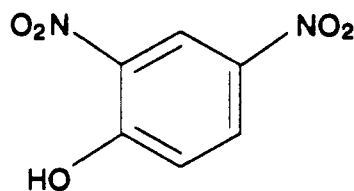
10-9

2,4-Dinitrophenol**CAS Name:** Phenol, 2,4-dinitro-

CAS Number:	51-28-5	REF
Empirical Formula:	C ₆ H ₄ N ₂ O ₅	
MCL:	NA	
Molecular Weight:	184.11 g/mol	01
Melting Point:	115-116 °C	01
Boiling Point:	sublimes	01
Vapor Pressure:	3.9 x 10 ⁻⁴ mm Hg at 20°C	04
Specific Gravity:	1.683 at 24°C	01
Solubility:	5.6 x 10 ³ mg/L at 18°C	03
Henry's Law Constant:	6.45 x 10 ⁻¹⁰ atm • m ³ /mol at 18°C	03
Log K_{ow}:	1.54	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8040	130
8250	420
8270	50



2,4-Dinitrotoluene**CAS Name:** Benzene, 1-methyl-2,4-dinitro-**CAS Number:** 121-14-2**REF****Empirical Formula:** $C_7H_6N_2O_4$ **MCL:** NA**Molecular Weight:** 182.14 g/mol

01

Melting Point: 71°C

01

Boiling Point: Decomposes at 300°C

01

Vapor Pressure: 1.3×10^{-3} mm Hg at 59°C

03

Specific Gravity: 1.3208 at 71°C

01

Solubility: 2.7×10^2 mg/L at 22°C

03

Henry's Law Constant: 8.67×10^{-7} atm • m³/mol [UT]

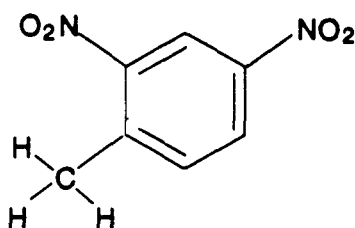
04

Log K_{ow} : 2.01

03

Possible SW-846 Analytical Methods

Method	EQL(μ g/L)
8090	0.2
8250	57
8270	10
8275	NA
8330	5.7

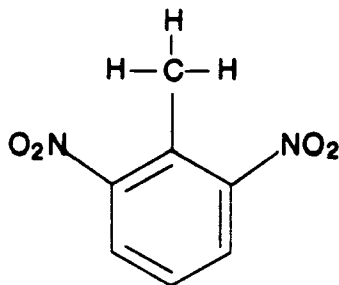


2,6-Dinitrotoluene**CAS Name:** Benzene, 2-methyl-1,3-dinitro-

CAS Number:	606-20-2	REF
Empirical Formula:	C ₇ H ₆ N ₂ O ₄	
MCL:	NA	
Molecular Weight:	182.14 g/mol	
Melting Point:	66°C	
Boiling Point:	285 °C	
Vapor Pressure:	6 x 10 ⁰⁰ mm Hg at 150°C	
Specific Gravity:	1.2833 at 111°C	
Solubility:	2.7 x 10 ⁰² mg/L at 22°C	
Henry's Law Constant:	2.17 x 10 ⁻⁰⁷ atm • m ³ /mol [UT]	
Log K_{ow}:	2.05	

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8090	0.1
8250	19
8270	10
8330	9.4

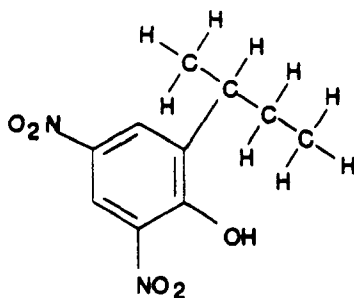


Dinoseb; DNBP; 2-sec-Butyl-4,6-Dinitrophenol**CAS Name:** Phenol, 2-(1-methylpropyl)-4,6-dinitro-

CAS Number:	88-85-7	REF
Empirical Formula:	C ₁₀ H ₁₂ N ₂ O ₅	
MCL:	0.007 mg/L	11
Molecular Weight:	240.22 g/mol	02
Melting Point:	38-42 °C	02
Boiling Point:	NA	
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 151°C	03
Specific Gravity:	NA	
Solubility:	5 x 10 ⁰¹ mg/L [UT]	03
Henry's Law Constant:	5.04 x 10 ⁻⁰⁴ atm • m ³ /mol at 20°C	14
Log K_{ow}:	3.69	14

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8040	NA
8270	20

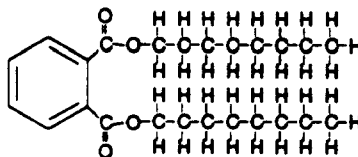


Di-n-octyl phthalate**CAS Name:** 1,2-Benzenedicarboxylic acid, dioctyl ester

CAS Number:	117-84-0	REF
Empirical Formula:	C ₂₄ H ₃₈ O ₄	
MCL:	NA	
Molecular Weight:	390.57 g/mol	04
Melting Point:	-30 °C	04
Boiling Point:	386 °C	04
Vapor Pressure:	<2 x 10 ⁻⁰¹ mm Hg at 150°C	03
Specific Gravity:	0.978 at 20/4°C	04
Solubility:	3 x 10 ⁰⁰ mg/L at 25°C	03
Henry's Law Constant:	1.41 x 10 ⁻¹² atm • m ³ /mol at 25°C	04
Log K_{ow}:	9.2	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8060	30/310
8061	0.49
8250	25
8270	10



1,4-Dioxane ****CAS Name:** 1,4-Dioxane**CAS Number:** 123-91-1**Empirical Formula:** C₄H₈O₂**MCL:** NA**Molecular Weight:** 88.11 g/mol**Melting Point:** 11.8°C**Boiling Point:** 101°C at 750 mm Hg**Vapor Pressure:** 3.7 x 10⁰¹ mm Hg at 25°C**Specific Gravity:** 1.0337 at 20/4°C**Solubility:** miscible**Henry's Law Constant:** 4.88 x 10⁻⁰⁶ atm • m³/mol at 25°C**Log K_{ow}:** -0.42**REF**

01

01

01

03

01

03

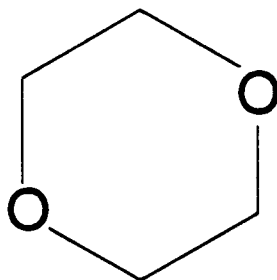
04

03

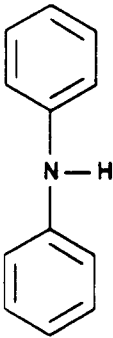
Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8260

NA



Diphenylamine

CAS Name: Benzenamine, N-phenyl-		
CAS Number:	122-39-4	REF
Empirical Formula:	C ₁₂ H ₁₁ N	
MCL:	NA	
Molecular Weight:	169.23 g/mol	
Melting Point:	54-55°C	
Boiling Point:	302 °C	
Vapor Pressure:	NA	
Specific Gravity:	1.160 at 22/20°C	
Solubility:	3 x 10 ⁰² mg/L at 25°C	
Henry's Law Constant:	NA	
Log K_{ow}:	3.22	
Possible SW-846 Analytical Methods		
Method	EQL(µg/L)	
8250	NA	
8270	NA	
8275	NA	

Disulfoton

CAS Name: Phosphorodithioic acid, O,O-diethyl-S-[2-(ethylthio)ethyl]ester													
CAS Number: 298-04-4	REF 02 02 02 02 03												
Empirical Formula: $C_8H_{19}O_2PS_3$													
MCL: NA													
Molecular Weight: 274.38 g/mol													
Melting Point: NA													
Boiling Point: 132-133°C at 1.5 mm Hg													
Vapor Pressure: 1.8×10^{-4} mm Hg at 20°C													
Specific Gravity: 1.144 at 20/4°C													
Solubility: Insoluble	02												
Henry's Law Constant: NA													
Log K_{ow}: 3.94	03												
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(μg/L)</th></tr> </thead> <tbody> <tr> <td>8140</td><td>2.0</td></tr> <tr> <td>8141</td><td>0.7</td></tr> <tr> <td>8270</td><td>10</td></tr> <tr> <td>8321</td><td>NA</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(μ g/L)	8140	2.0	8141	0.7	8270	10	8321	NA
Possible SW-846 Analytical Methods													
Method	EQL(μ g/L)												
8140	2.0												
8141	0.7												
8270	10												
8321	NA												

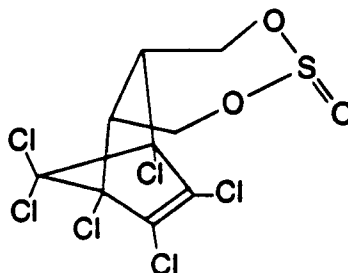
Endosulfan I

CAS Name: 6,9-Methano-2,4,3-benzodioxathiepin, -3-Oxide, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, (3alpha,5abeta,6alpha,9alpha,9abeta)-

CAS Number:	959-98-8	REF
Empirical Formula:	C ₉ H ₆ Cl ₆ O ₃ S	
MCL:	NA	
Molecular Weight:	406.95 g/mol	02
Melting Point:	108 - 110°C	02
Boiling Point:	NA	
Vapor Pressure:	1 x 10 ⁻⁰⁵ mm Hg at 25°C	04
Specific Gravity:	1.745 at 20/4°C	04
Solubility:	3.2 x 10 ⁻⁰¹ mg/L at 22°C	03
Henry's Law Constant:	1.01 x 10 ⁻⁰⁴ atm • m ³ /mol at 25°C	04
Log K_{ow}:	3.55	03

Possible SW-846 Analytical Methods

Method	EQL (µg/L)
8080	0.14
8081	0.30
8250	NA
8270	NA



Endosulfan II

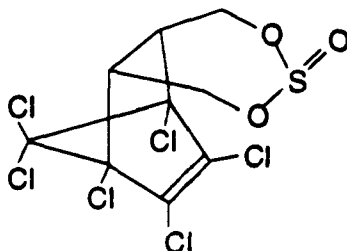
CAS Name: 6,9-Methano-2,4,3-benzodioxathiepin, -3-Oxide, 6,7,8,9,10,10-hexachloro-1,5,5a, 6,9,9a-hexahydro-(3alpha, 5a-alpha, 6beta,9beta,9a-alpha)-

CAS Number:	33213-65-9	REF
Empirical Formula:	C ₉ H ₆ Cl ₆ O ₃ S	
MCL:	NA	
Molecular Weight:	406.95 g/mol	02
Melting Point:	208 - 210°C	02
Boiling Point:	NA	
Vapor Pressure:	1 x 10 ⁻⁰⁵ mm Hg at 25°C	03
Specific Gravity:	1.745 at 20/20°C	04
Solubility:	3.3 x 10 ⁻⁰¹ mg/L at 22°C	03
Henry's Law Constant:	1.91 x 10 ⁻⁰⁵ atm • m ³ /mol at 25°C	04
Log K_{ow}:	3.62	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8080	0.04
8081	0.40
8250	NA
8270	NA

8080	0.04
8081	0.40
8250	NA
8270	NA



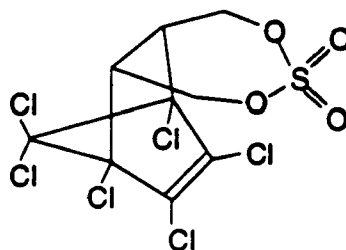
Endosulfan sulfate

CAS Name: 6,9-Methano-2,4,3-benzodioxathiepin, -3,3-dioxide,
6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-

CAS Number:	1031-07-8	REF
Empirical Formula:	C ₉ H ₆ Cl ₆ O ₄ S	
MCL:	NA	
Molecular Weight:	422.92 g/mol	04
Melting Point:	198-201 °C	04
Boiling Point:	NA	
Vapor Pressure:	NA	
Specific Gravity:	NA	
Solubility:	2.2 x 10 ⁻⁰¹ mg/L [UT]	03
Henry's Law Constant:	NA	
Log K_{ow}:	3.66	03

Possible SW-846 Analytical Methods

Method	EQL (μg/L)
8080	0.66
8081	0.35
8250	56
8270	NA



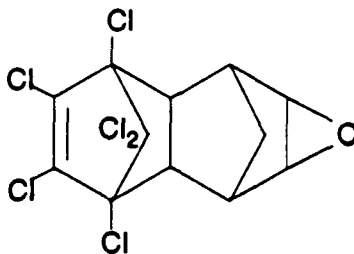
Endrin

CAS Name: 2,7,3,6-Dimethanonaphtho(2,3-b)pyridine, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1a- α , 2b α , 2a β , 3 α , 6 α , 6 β , 7b α , 7a- α)-

CAS Number:	72-20-8	REF
Empirical Formula:	C ₁₂ H ₈ Cl ₆ O	
MCL:	0.002 mg/L	11
Molecular Weight:	380.92 g/mol	04
Melting Point:	200 °C	
Boiling Point:	decomposes at 245°C	04
Vapor Pressure:	2 x 10 ⁻⁰⁷ mm Hg at 25°C	03
Specific Gravity:	1.65 at 25/4°C	04
Solubility:	2.6 x 10 ⁻⁰¹ mg/L at 25°C	03
Henry's Law Constant:	4 x 10 ⁻⁰⁷ atm • m ³ /mol at 25°C	03
Log K_{ow}:	5.6	03

Possible SW-846 Analytical Methods

Method	EQL(μ g/L)
8080	0.06
8081	0.39
8250	NA
8270	NA



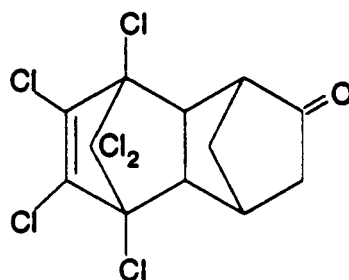
Endrin aldehyde

CAS Name: 1,2,4-Methanocyclopenta[cd]pentalene-5-carboxaldehyde, 2,2a,3,3,4,7,7-hexachlorodecahydro-, (1 α ,2 β ,2 β ,4 β ,4 β ,5 β ,6 β ,5 β - β ,7R*)-

CAS Number:	7421-93-4	REF
Empirical Formula:	C ₁₂ H ₈ Cl ₆ O	
MCL:	NA	
Molecular Weight:	380.92 g/mol	04
Melting Point:	145-149 °C	04
Boiling Point:	decomposes at 235°C	04
Vapor Pressure:	2 x 10 ⁻⁰⁷ mm Hg at 25°C	04
Specific Gravity:	NA	
Solubility:	2.6 x 10 ⁻⁰¹ mg/L at 25°C	04
Henry's Law Constant:	3.86 x 10 ⁻⁰⁷ atm • m ³ /mol at 25°C	04
Log K_{ow}:	5.6	04

Possible SW-846 Analytical Methods

Method	EQL(μ g/L)
8080	0.23
8081	0.50
8250	NA
8270	NA



Ethylbenzene**CAS Name:** Benzene, ethyl-**CAS Number:** 100-41-4**Empirical Formula:** C_8H_{10} **MCL:** 0.7 mg/L**Molecular Weight:** 106.17 g/mol**Melting Point:** -95°C**Boiling Point:** 136.2 °C**Vapor Pressure:** 1.0×10^{01} mm Hg at 25.9°C**Specific Gravity:** 0.8670 at 20/4°C**Solubility:** 1.52×10^{02} mg/L at 20°C**Henry's Law Constant:** 8.043×10^{-03} atm • m³/mol at 25°C**Log K_{ow} :** 3.15**REF**

08

01

01

01

03

01

03

06

03

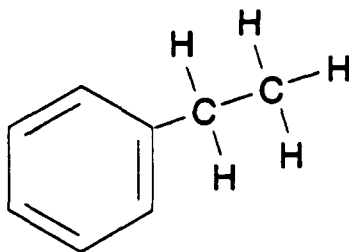
Possible SW-846 Analytical Methods**Method** **EQL(μ g/L)**

8020 2

8021 0.05

8240 5

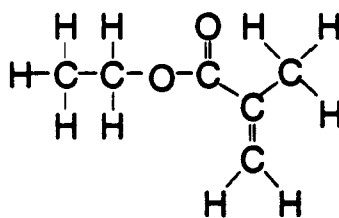
8260 5



Ethyl methacrylate**CAS Name:** 2-Propenoic acid, 2-methyl-, ethyl ester

CAS Number:	97-63-2	REF
Empirical Formula:	C ₆ H ₁₀ O ₂	
MCL:	NA	
Molecular Weight:	114.14 g/mol	01
Melting Point:	NA	
Boiling Point:	117 °C	01
Vapor Pressure:	NA	
Specific Gravity:	0.9135 at 20/4°C	01
Solubility:	Insoluble	03
Henry's Law Constant:	NA	
Log K_{ow}:	NA	

Possible SW-846 Analytical Methods	
Method	EQL (µg/L)
8240	5



Ethyl methanesulfonate**CAS Name:** Methanesulfonic acid, ethyl ester**CAS Number:** 62-50-0**REF****Empirical Formula:** C₃H₈O₃S**MCL:** NA**Molecular Weight:** 124.15 g/mol

02

Melting Point: NA**Boiling Point:** 213 - 213.5°C at 761 mm Hg

02

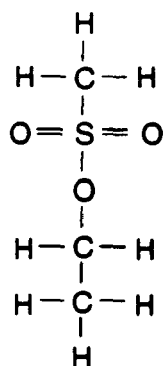
Vapor Pressure: NA**Specific Gravity:** 1.1452 at 22/4°C

02

Solubility: NA**Henry's Law Constant:** NA**Log K_{ow}:** NA**Possible SW-846 Analytical Methods****Method** **EQL(μg/L)**

8250 NA

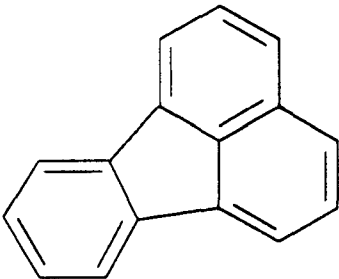
8270 20



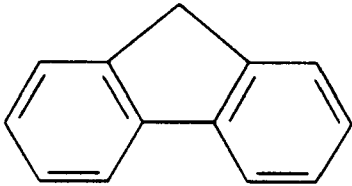
mol

CS(=O)(=O)N(C)C1=CC=C(C=C1)OP(=S)(OC)OC

Fluoranthene

CAS Name: Fluoranthene		
CAS Number:	206-44-0	REF
Empirical Formula:	C ₁₆ H ₁₀	
MCL:	NA	
Molecular Weight:	202.26 g/mol	
Melting Point:	107 °C	
Boiling Point:	375 °C	
Vapor Pressure:	5.0 x 10 ⁻⁰⁶ mm Hg at 25°C	
Specific Gravity:	1.252 [UT]	
Solubility:	2.65 x 10 ⁻⁰¹ mg/L at 25°C	
Henry's Law Constant:	6.5 x 10 ⁻⁰⁶ atm • m ³ /mol at 25°C	
Log K_{ow}:	5.33	
Possible SW-846 Analytical Methods		
Method	EQL(μg/L)	
8100	NA	
8250	22	
8270	10	
8310	2.1	

Fluorene

CAS Name: 9H-Fluorene		
CAS Number:	86-73-7	REF
Empirical Formula:	C ₁₃ H ₁₀	
MCL:	NA	
Molecular Weight:	166.22 g/mol	
Melting Point:	116-117 °C	
Boiling Point:	293-295 °C	
Vapor Pressure:	1 x 10 ⁰¹ mm Hg at 146 °C	
Specific Gravity:	1.202 [UT]	
Solubility:	1.9 x 10 ⁰⁰ mg/L at 25°C	
Henry's Law Constant:	1.17 x 10 ⁻⁰⁴ atm • m ³ /mol at 25°C	03
Log K_{ow}:	4.18	03
Possible SW-846 Analytical Methods		
Method	EQL(µg/L)	
8100	NA	
8250	19	
8270	10	
8275	NA	
8310	2.1	

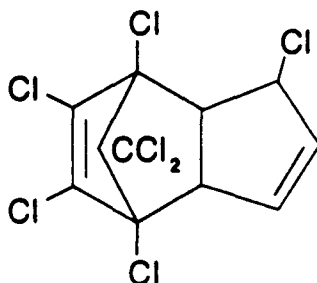
Heptachlor

CAS Name: 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-

CAS Number:	76-44-8	REF
Empirical Formula:	C ₁₀ H ₅ Cl ₇	
MCL:	0.0004 mg/L	08
Molecular Weight:	373.32 g/mol	01
Melting Point:	95-96 °C	01
Boiling Point:	135 - 145°C at 1-1.5 mm Hg	04
Vapor Pressure:	3 x 10 ⁻⁰⁴ mm Hg at 25°C	03
Specific Gravity:	1.57 at 9°C	01
Solubility:	5.6 x 10 ⁻⁰² mg/L at 25°C	03
Henry's Law Constant:	1.48 x 10 ⁻⁰³ atm • m ³ /mol [UT]	03
Log K_{ow}:	4.40	04

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8080	0.03
8081	0.40
8250	19
8270	NA



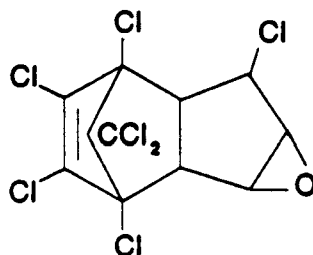
Heptachlor epoxide

CAS Name: 2,5-Methano-2H-indeno[1,2-b]cdrene,2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-(1a- α ,1b- β ,2a- α ,5a- α ,5e- β ,6a- β ,6e- α)

CAS Number:	1024-57-3	REF
Empirical Formula:	C ₁₀ H ₅ Cl ₇ O	
MCL:	0.0002 mg/L	08
Molecular Weight:	389.32 g/mol	04
Melting Point:	157-160 °C	04
Boiling Point:	NA	
Vapor Pressure:	2.6 x 10 ⁻⁰⁶ mm Hg at 20°C	04
Specific Gravity:	NA	
Solubility:	3.5 x 10 ⁻⁰¹ mg/L at 25°C	03
Henry's Law Constant:	3.16 x 10 ⁻⁰⁵ atm • m ³ /mol at 25°C	03
Log K_{ow}:	3.65	04

Possible SW-846 Analytical Methods

Method	EQL(μ g/L)
8080	0.83
8081	0.32
8250	22
8270	NA



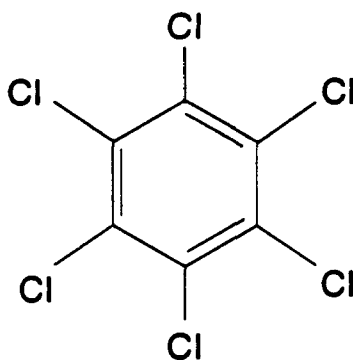
Hexachlorobenzene

CAS Name: Benzene, hexachloro-

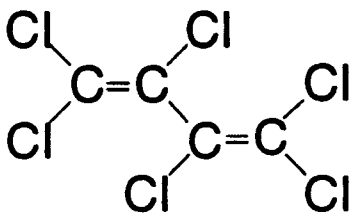
CAS Number:	118-74-1	REF
Empirical Formula:	C ₆ Cl ₆	
MCL:	0.001 mg/L	11
Molecular Weight:	284.78 g/mol	01
Melting Point:	230 °C	01
Boiling Point:	Sublimes at 322 °C	01
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 114.4°C	03
Specific Gravity:	1.5691 at 23.6°C	01
Solubility:	1.1 x 10 ⁻⁰¹ mg/L at 24°C	03
Henry's Law Constant:	1.7 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	03
Log K_{ow}:	5.47	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8120	0.5
8121	0.056
8250	19
8270	10
8275	NA



Hexachlorobutadiene

CAS Name: 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-																	
CAS Number: 87-68-3	REF																
Empirical Formula: C ₄ Cl ₆																	
MCL: NA																	
Molecular Weight: 260.76 g/mol	01																
Melting Point: -21 °C	01																
Boiling Point: 215 °C	01																
Vapor Pressure: 1.5 x 10 ⁻⁰¹ mm Hg at 20°C	03																
Specific Gravity: 1.5542 at 20°C	01																
Solubility: 2 x 10 ⁰⁰ mg/L at 20°C	03																
Henry's Law Constant: 2.56 x 10 ⁻⁰² atm • m ³ /mol at 20°C	03																
Log K_{ow}: 4.78	03																
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL (µg/L)</th></tr> </thead> <tbody> <tr> <td>8021</td><td>0.6/0.2</td></tr> <tr> <td>8120</td><td>3.4</td></tr> <tr> <td>8121</td><td>0.014</td></tr> <tr> <td>8250</td><td>9</td></tr> <tr> <td>8260</td><td>5</td></tr> <tr> <td>8270</td><td>10</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL (µg/L)	8021	0.6/0.2	8120	3.4	8121	0.014	8250	9	8260	5	8270	10
Possible SW-846 Analytical Methods																	
Method	EQL (µg/L)																
8021	0.6/0.2																
8120	3.4																
8121	0.014																
8250	9																
8260	5																
8270	10																
																	

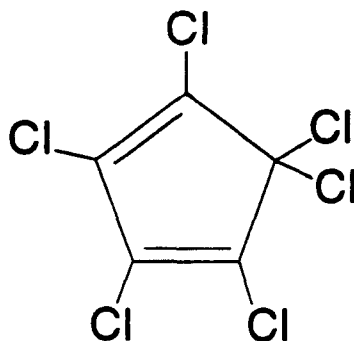
Hexachlorocyclopentadiene

CAS Name: 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-

CAS Number:	77-47-4	REF
Empirical Formula:	C ₅ Cl ₆	
MCL:	0.05 mg/L	11
Molecular Weight:	272.77 g/mol	01
Melting Point:	-9°C	01
Boiling Point:	239 °C at 753 mm Hg	01
Vapor Pressure:	8 x 10 ⁻⁰² mm Hg at 25°C	03
Specific Gravity:	1.7019 at 25/4°C	01
Solubility:	1.8 x 10 ⁰⁰ mg/L at 25°C	03
Henry's Law Constant:	1.6 x 10 ⁻⁰² atm • m ³ /mol at 25°C	03
Log K_{ow}:	3.99	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8120	4.0
8121	2.4
8250	NA
8270	10

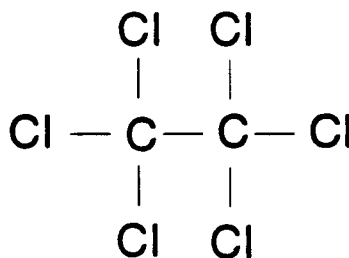


Hexachloroethane**CAS Name:** Ethane, hexachloro-

CAS Number:	67-72-1	REF
Empirical Formula:	C ₂ Cl ₆	
MCL:	NA	
Molecular Weight:	236.74 g/mol	01
Melting Point:	186-187 °C	01
Boiling Point:	186 °C at 777 mm Hg	01
Vapor Pressure:	4.0 x 10 ⁻⁰¹ mm Hg at 20°C	03
Specific Gravity:	2.091 at 20/4°C	01
Solubility:	5 x 10 ⁰¹ mg/L at 22°C	03
Henry's Law Constant:	2.237 x 10 ⁻⁰² atm • m ³ /mol at 25°C	06
Log K_{ow}:	4.14	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8120	0.3
8121	0.016
8250	16
8270	10

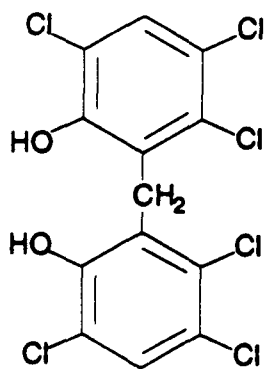


Hexachlorophene ****CAS Name:** Phenol, 2,2'-methylenebis[3,4,6-trichloro-

CAS Number:	70-30-4	REF
Empirical Formula:	C ₁₃ H ₆ Cl ₆ O ₂	
MCL:	NA	
Molecular Weight:	406.91 g/mol	01
Melting Point:	166 - 167°C	01
Boiling Point:	NA	
Vapor Pressure:	NA	
Specific Gravity:	NA	
Solubility:	4 x 10 ⁻³ mg/L [UT]	15
Henry's Law Constant:	NA	
Log K_{ow}:	7.54	15

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8270	50



Hexachloropropene**CAS Name:** 1-Propene, 1,1,2,3,3,3-hexachloro-**CAS Number:** 1888-71-7**REF****Empirical Formula:** C₃Cl₆**MCL:** NA**Molecular Weight:** 248.75 g/mol

01

Melting Point: NA**Boiling Point:** 209-210°C

01

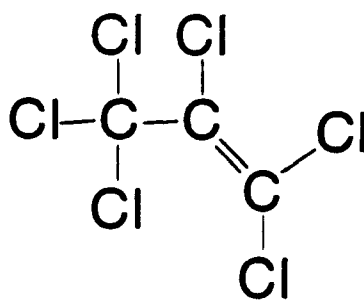
Vapor Pressure: NA**Specific Gravity:** 1.7652 at 20/4°C

01

Solubility: NA**Henry's Law Constant:** NA**Log K_{ow}:** NA**Possible SW-846 Analytical Methods**
Method **EQL(μg/L)**

8270

10



2-Hexanone; Methyl butyl ketone

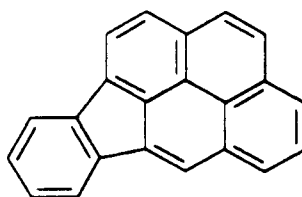
CAS Name: 2-Hexanone							
CAS Number: 591-78-6	REF						
Empirical Formula: C ₆ H ₁₂ O							
MCL: NA							
Molecular Weight: 100.16 g/mol	01						
Melting Point: -57 °C	01						
Boiling Point: 128 °C	01						
Vapor Pressure: 2 x 10 ⁰⁰ mm Hg at 20°C	03						
Specific Gravity: 0.8113 at 20/4°C	01						
Solubility: 3.5 x 10 ⁰⁴ mg/L at 20°C	03						
Henry's Law Constant: 1.75 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	04						
Log K_{ow}: 1.38	03						
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(µg/L)</th></tr> </thead> <tbody> <tr> <td>8240</td><td>50</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(µg/L)	8240	50
Possible SW-846 Analytical Methods							
Method	EQL(µg/L)						
8240	50						
$ \begin{array}{ccccccc} & \text{H} & \text{H} & \text{H} & \text{H} & \text{O} & \text{H} \\ & & & & & & \\ \text{H} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{H} \\ & & & & & & \\ & \text{H} & \text{H} & \text{H} & \text{H} & & \text{H} \end{array} $							

Indeno(1,2,3-cd)pyrene**CAS Name:** Indeno[1,2,3-cd]pyrene

CAS Number:	193-39-5	REF
Empirical Formula:	C ₂₂ H ₁₂	
MCL:	NA	
Molecular Weight:	276.34 g/mol	04
Melting Point:	160-163°C	05
Boiling Point:	536°C	05
Vapor Pressure:	1 x 10 ⁻¹⁰ mm Hg at 25 °C	04
Specific Gravity:	NA	
Solubility:	6.2 x 10 ⁻⁰² mg/L [UT]	04
Henry's Law Constant:	6.95 x 10 ⁻⁰⁸ atm • m ³ /mol at 25°C	03
Log K_{ow}:	7.66	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8100	NA
8250	37
8270	10
8310	0.43



Isobutyl alcohol****CAS Name:** 1-Propanol, 2-methyl-**CAS Number:** 78-83-1**Empirical Formula:** C₄H₁₀O**MCL:** NA**Molecular Weight:** 74.12 g/mol**Melting Point:** -108°C**Boiling Point:** 108.1°C**Vapor Pressure:** 1 x 10⁰¹ mm Hg at 25°C**Specific Gravity:** 0.8018 at 20/4°C**Solubility:** 9.5 x 10⁰⁴ mg/L at 18°C**Henry's Law Constant:** 9.25 x 10⁻⁰⁶ atm • m³/mol at 20°C**Log K_{ow}:** 0.83**REF**

01

02

01

03

01

03

04

03

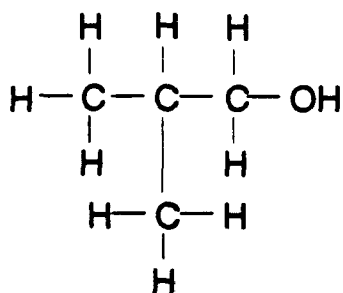
Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8240

100

8260

NA



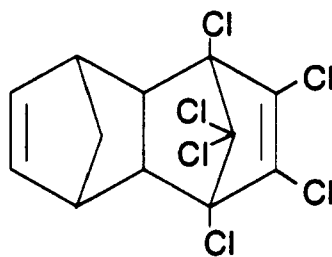
Isodrin

CAS Name: 1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a,-hexahydro-(1 alpha,4 alpha,4a beta,5 beta, 8 beta, 8a beta)-

CAS Number:	465-73-6	REF 03 03
Empirical Formula:	C ₁₂ H ₈ Cl ₆	
MCL:	NA	
Molecular Weight:	364.93	
Melting Point:	240 - 242°C	
Boiling Point:	NA	
Vapor Pressure:	NA	
Specific Gravity:	NA	
Solubility:	NA	
Henry's Law Constant:	NA	
Log K_{ow}:	NA	

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8270	20



Isophorone**CAS Name:** 2-Cyclohexen-1-one, 3,5,5-trimethyl-**CAS Number:** 78-59-1**Empirical Formula:** C₉H₁₄O**MCL:** NA**Molecular Weight:** 138.21 g/mol**Melting Point:** -8°C**Boiling Point:** 214 °C at 754 mm Hg**Vapor Pressure:** 3.8 x 10⁻⁰¹ mm Hg at 20°C**Specific Gravity:** 0.9229 at 20°C**Solubility:** 1.2 x 10⁰⁴ mg/L [UT]**Henry's Law Constant:** 5.8 x 10⁻⁰⁶ atm • m³/mol [UT]**Log K_{ow}:** 1.7**REF**

01

05

01

03

01

03

04

03

Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8090

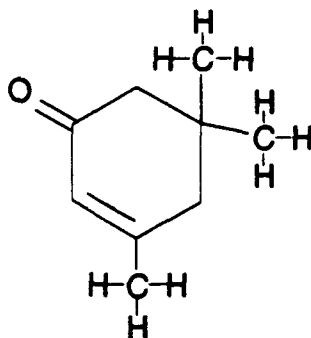
157/57

8250

22

8270

10

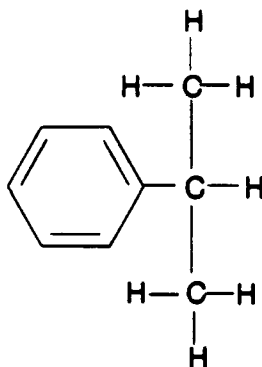


Isopropylbenzene ***CAS Name:** Benzene, (1-methylethyl)-

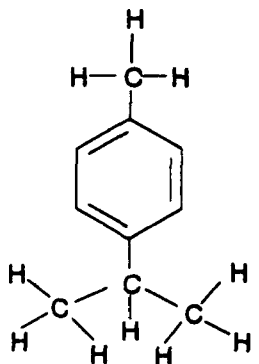
CAS Number:	98-82-8	REF
Empirical Formula:	C_9H_{12}	
MCL:	NA	
Molecular Weight:	120.19 g/mol	01
Melting Point:	-96 °C	01
Boiling Point:	152.4 °C	01
Vapor Pressure:	3.2×10^{00} mm Hg at 20°C	03
Specific Gravity:	0.8618 at 20/4°C	01
Solubility:	5×10^{01} mg/L at 20°C	03
Henry's Law Constant:	1.46×10^{-02} atm • m ³ /mol at 25°C	03
Log K_{ow}:	3.66	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8021	0.5
8260	5



p-Isopropyltoluene *

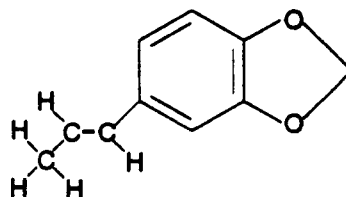
CAS Name: Benzene, 1-methyl-4-(1-methylethyl)-	
CAS Number: 99-87-6	REF
Empirical Formula: C ₁₀ H ₁₄	
MCL: NA	
Molecular Weight: 134.22 g/mol	01
Melting Point: -63.6°C	01
Boiling Point: 183°C	01
Vapor Pressure: 1 x 10 ⁰⁰ mm Hg at 17.3°C	03
Specific Gravity: 0.8584 at 20°C	01
Solubility: 3.4 x 10 ⁰² mg/L [UT]	03
Henry's Law Constant: NA	
Log K_{ow}: 4.10	03
Possible SW-846 Analytical Methods	
Method	EQL(µg/L)
8021	0.1
8260	5
	

Losafrole ****CAS Name:** 1,3-Benzodioxole, 5-(1-propenyl)-

CAS Number:	120-58-1	REF
Empirical Formula:	C ₁₀ H ₁₀ O ₂	
MCL:	NA	
Molecular Weight:	162.19 g/mol	01
Melting Point:	8.2 °C	02
Boiling Point:	253 °C	01
Vapor Pressure:	1.60 x 10 ⁻⁰⁸ mm Hg [UT]	15
Specific Gravity:	1.1224 at 20/4°C	01
Solubility:	1.09 x 10 ⁰³ mg/L [UT]	15
Henry's Law Constant:	3.25 x 10 ⁻¹² atm • m ³ /mol [UT]	15
Log K_{ow}:	2.66	15

Possible SW-846 Analytical Methods	
Method	EQL(µg/L)

8270	10
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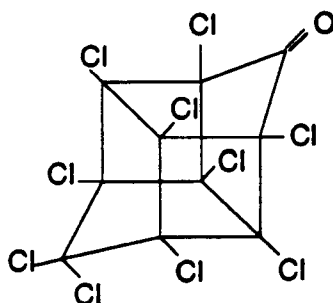
Kepone

CAS Name: 1,3,4-Metheno-2H-cyclobuta [cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

CAS Number:	143-50-0	REF
Empirical Formula:	C ₁₀ Cl ₁₀ O	
MCL:	NA	
Molecular Weight:	490.68 g/mol	02
Melting Point:	sublimes	04
Boiling Point:	decomposes at 350°C	02
Vapor Pressure:	<3 x 10 ⁻⁰⁷ mm Hg [UT]	03
Specific Gravity:	NA	
Solubility:	7.6 x 10 ⁰⁰ mg/L at 24°C	03
Henry's Law Constant:	3.11 x 10 ⁻⁰² atm • m ³ /mol at 25°C	04
Log K_{ow}:	5.30	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8270	20



Lead**CAS Name:** Lead**CAS Number:** 7439-92-1**Empirical Formula:** Pb**MCL:** 0.015 mg/L**Molecular Weight:** 207.20 g/mol**Melting Point:** 327.502 °C**Boiling Point:** 1740°C**Vapor Pressure:** 1×10^{00} mm Hg at 970°C**Specific Gravity:** 11.2960 at 16°C**Solubility:** insoluble**Henry's Law Constant:** NA**Log K_{ow} :** NA**REF**

07

01

01

01

03

01

03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
6010	NA
6020	NA
7420	NA
7421	NA

Pb

Mercury

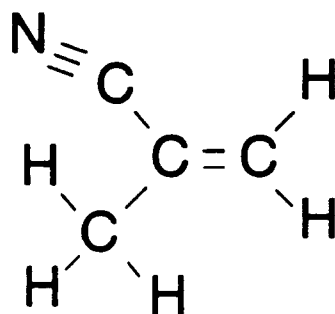
CAS Name: Mercury									
CAS Number: 7439-97-6	REF								
Empirical Formula: Hg									
MCL: 0.002 mg/L	08								
Molecular Weight: 200.59 ± 3 g/mol	01								
Melting Point: -38.87°C	01								
Boiling Point: 356.58°C	01								
Vapor Pressure: 1.0 x 10 ⁻⁰² mm Hg at 260°C	01								
Specific Gravity: 13.5939 at 20/4°C	01								
Solubility: 5.6 x 10 ⁻⁰² mg/L at 25°C	03								
Henry's Law Constant: 1.14 x 10 ⁻⁰² atm • m ³ /mol [UT]	03								
Log K_{ow}: NA									
<table> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(μg/L)</th></tr> <tr> <td>7470</td><td>NA</td></tr> <tr> <td>7471</td><td>NA</td></tr> </table>		Possible SW-846 Analytical Methods		Method	EQL(μg/L)	7470	NA	7471	NA
Possible SW-846 Analytical Methods									
Method	EQL(μg/L)								
7470	NA								
7471	NA								
Hg									

Methacrylonitrile**CAS Name:** 2-Propenenitrile, 2-methyl-

CAS Number:	126-98-7	REF
Empirical Formula:	C ₄ H ₅ N	
MCL:	NA	
Molecular Weight:	67.09 g/mol	01
Melting Point:	-35.8 °C	01
Boiling Point:	90.3°C	01
Vapor Pressure:	6.5 x 10 ⁰¹ mm Hg at 25°C	03
Specific Gravity:	0.7998 at 20/4°C	01
Solubility:	2.5 x 10 ⁰⁴ mg/L [UT]	03
Henry's Law Constant:	NA	
Log K_{ow}:	NA	

Possible SW-846 Analytical Methods

Method	EQL (µg/L)
8240	100



Methapyrilene ****CAS Name:** 1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-**CAS Number:** 91-80-5**REF****Empirical Formula:** C₁₄H₁₉N₃S**MCL:** NA**Molecular Weight:** 261.38 g/mol

01

Melting Point: NA**Boiling Point:** 173-175 °C at 3 mm Hg

01

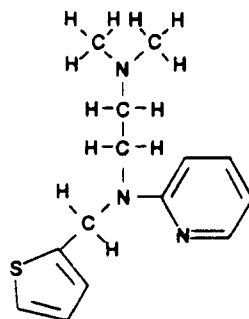
Vapor Pressure: NA**Specific Gravity:** NA**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow}:** 2.74

03

Possible SW-846 Analytical Methods
Method **EQL(μg/L)**

8270

100

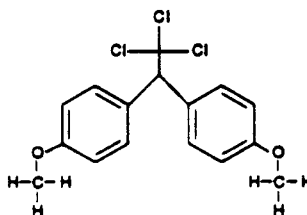


Methoxychlor**CAS Name:** Benzene], 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy-

CAS Number:	72-43-5	REF
Empirical Formula:	C ₁₆ H ₁₅ Cl ₃ O ₂	
MCL:	0.04 mg/L	08
Molecular Weight:	345.65 g/mol	02
Melting Point:	98°C	05
Boiling Point:	decomposes	04
Vapor Pressure:	NA	
Specific Gravity:	1.41 at 25°C	05
Solubility:	4 x 10 ⁻⁰² mg/L at 24°C	03
Henry's Law Constant:	NA	
Log K_{ow}:	4.68	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8080	1.76
8081	0.86
8270	10

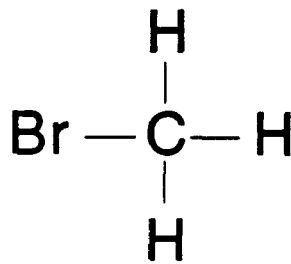


Methyl bromide; Bromomethane

CAS Name: Methane, bromo-	
CAS Number: 74-83-9	REF
Empirical Formula: CH ₃ Br	
MCL: NA	
Molecular Weight: 94.94 g/mol	01
Melting Point: -93.6 °C	01
Boiling Point: 3.6 °C	01
Vapor Pressure: 1.420×10^{-3} mm Hg at 20°C	03
Specific Gravity: 1.6755 at 20/4°C	01
Solubility: 1.75×10^{04} mg/L at 20°C	03
Henry's Law Constant: 2×10^{-01} atm • m ³ /mol [UT]	04
Log K_{ow}: 1.1	03

Possible SW-846 Analytical Methods	
Method	EQL(µg/L)
8010	3.0
8021	11
8240	10
8260	5

8010	3.0
8021	11
8240	10
8260	5



Methyl Chloride; Chloromethane**CAS Name:** Methane, chloro-**CAS Number:** 74-87-3**REF****Empirical Formula:** CH₃Cl**MCL:** NA**Molecular Weight:** 50.49 g/mol

01

Melting Point: -97.1 °C

01

Boiling Point: -24.2 °C

01

Vapor Pressure: 3.8 x 10⁻³ mm Hg at 20°C

03

Specific Gravity: 0.9159 at 20/4°C

01

Solubility: 6.36 x 10³ mg/L at 20°C

03

Henry's Law Constant: 8.82 x 10⁻³ atm • m³/mol at 24.8°C

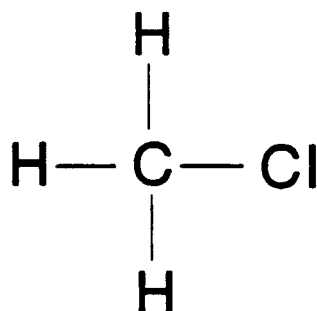
03

Log K_{ow}: 0.91

03

Possible SW-846 Analytical Methods

Method	EQL (µg/L)
8010	0.8
8021	0.3
8240	10
8260	5



3-Methylcholanthrene**CAS Name:** Benz[j]aceanthrylene,1,2-dihydro-3-methyl-**CAS Number:** 56-49-5**REF****Empirical Formula:** C₂₁H₁₆**MCL:** NA**Molecular Weight:** 268.34 g/mol

02

Melting Point: 179-180 °C

02

Boiling Point: 280°C at 80 mm Hg

02

Vapor Pressure: NA**Specific Gravity:** 1.28 at 20°C

02

Solubility: 3 x 10⁻⁰³ mg/L at 25°C

03

Henry's Law Constant: NA**Log K_{ow}:** 7.11

03

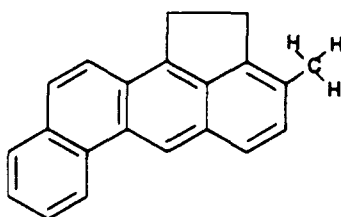
Possible SW-846 Analytical Methods**Method****EQL(µg/L)**

8250

NA

8270

10



Methylene bromide; Dibromomethane**CAS Name:** Methane, dibromo-**CAS Number:** 74-95-3**Empirical Formula:** CH₂Br₂**MCL:** NA**Molecular Weight:** 173.83 g/mol**Melting Point:** -52.5°C**Boiling Point:** 97°C**Vapor Pressure:** 4.0 x 10⁰¹ mm Hg at 23.3°C**Specific Gravity:** 2.4970 at 20/4°C**Solubility:** 1.17 x 10⁰⁴ mg/L at 15°C**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

01

01

01

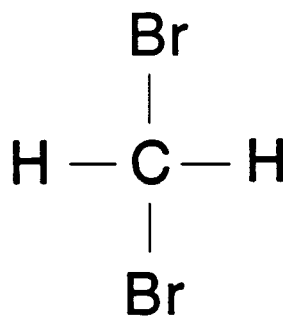
03

01

03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8010	NA
8021	22
8240	5
8260	5



Methylene chloride; Dichloromethane**CAS Name:** Methane, dichloro-**CAS Number:** 75-09-2**REF****Empirical Formula:** CH₂Cl₂**MCL:** 0.005 mg/L

11

Molecular Weight: 84.93 g/mol

01

Melting Point: -95.1 °C

01

Boiling Point: 40°C

01

Vapor Pressure: 4.29 x 10⁰² mm Hg at 25°C

03

Specific Gravity: 1.3266 at 20/4°C

01

Solubility: 1.67 x 10⁰⁴ mg/L at 25°C

03

Henry's Law Constant: 3.19 x 10⁻⁰³ atm • m³/mol at 25°C

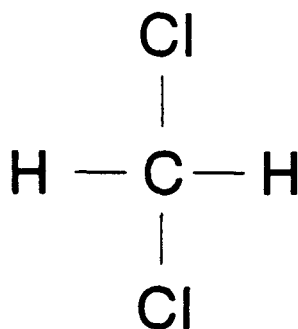
03

Log K_{ow}: 1.25

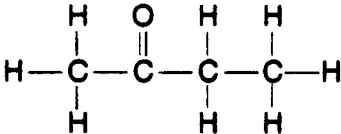
03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8010	NA
8021	0.2
8240	5
8260	5



Methyl ethyl ketone; MEK; 2-Butanone

CAS Name: 2-Butanone	
CAS Number: 78-93-3	REF
Empirical Formula: C ₄ H ₈ O	
MCL: NA	
Molecular Weight: 72.11 g/mol	
Melting Point: -86.3 °C	
Boiling Point: 79.6°C	
Vapor Pressure: 1 x 10 ⁰² mm Hg at 25°C	
Specific Gravity: 0.8054 at 20/4°C	
Solubility: 2.75 x 10 ⁰⁵ mg/L [UT]	
Henry's Law Constant: 4.66 x 10 ⁻⁰⁵ atm • m ³ /mol at 25°C	04
Log K_{ow}: 0.26	03
Possible SW-846 Analytical Methods	
Method	EQL(µg/L)
8015	NA
	

Methyl iodide; Iodomethane

CAS Name: Methane, iodo-									
CAS Number: 74-88-4	REF								
Empirical Formula: CH ₃ I									
MCL: NA									
Molecular Weight: 141.94 g/mol									
Melting Point: -66.4°C									
Boiling Point: 42.4°C									
Vapor Pressure: 4 x 10 ⁰² mm Hg at 25.3°C									
Specific Gravity: 2.279 at 20/4°C									
Solubility: 1.4 x 10 ⁰⁴ mg/L at 20°C									
Henry's Law Constant: 5.48 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	04								
Log K_{ow}: 1.69	03								
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(µg/L)</th></tr> </thead> <tbody> <tr> <td>8240</td><td>5</td></tr> <tr> <td>8260</td><td>NA</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(µg/L)	8240	5	8260	NA
Possible SW-846 Analytical Methods									
Method	EQL(µg/L)								
8240	5								
8260	NA								
$ \begin{array}{c} \text{H} \\ \\ \text{H} - \text{C} - \text{I} \\ \\ \text{H} \end{array} $									

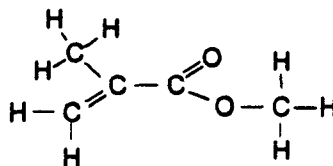
Methyl methacrylate

CAS Name: 2-Propenoic acid, 2-methyl-,methyl ester

CAS Number:	80-62-6	REF
Empirical Formula:	C ₅ H ₈ O ₂	
MCL:	NA	
Molecular Weight:	100.12 g/mol	01
Melting Point:	-48 °C	01
Boiling Point:	100-101 °C	01
Vapor Pressure:	2.8 x 10 ⁰¹ mm Hg at 20°C	03
Specific Gravity:	0.9440 at 20/4°C	01
Solubility:	1.6 x 10 ⁰⁴ mg/L [UT]	03
Henry's Law Constant:	2.46 x 10 ⁻⁰⁴ atm • m ³ /mol at 20°C	04
Log K_{ow}:	1.33	04

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8240	5



Methyl methanesulfonate**CAS Name:** Methanesulfonic acid, methyl ester**CAS Number:** 66-27-3**REF****Empirical Formula:** C₂H₆O₃S**MCL:** NA**Molecular Weight:** 110.13 g/mol

02

Melting Point: NA**Boiling Point:** 203 °C at 753 mm Hg

02

Vapor Pressure: NA**Specific Gravity:** 1.2943 at 20/4°C

02

Solubility: 2 x 10⁰⁵ mg/L [UT]

03

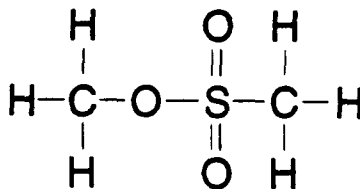
Henry's Law Constant: NA**Log K_{ow}:** NA**Possible SW-846 Analytical Methods****Method****EQL(µg/L)**

8250

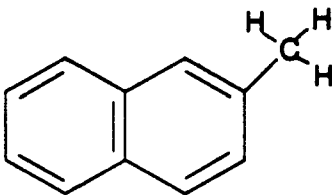
NA

8270

10



2-Methylnaphthalene

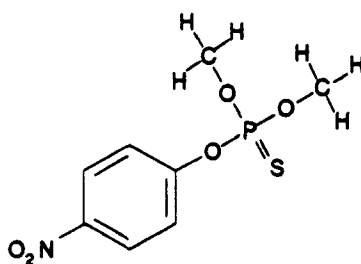
CAS Name: Naphthalene, 2-methyl-	
CAS Number: 91-57-6	REF
Empirical Formula: C ₁₁ H ₁₀	
MCL: NA	
Molecular Weight: 142.20 g/mol	
Melting Point: 34.6°C	
Boiling Point: 241°C	
Vapor Pressure: 1.0 x 10 ⁰¹ mm Hg at 105°C	
Specific Gravity: 1.0058 at 20/4°C	
Solubility: 2.6 x 10 ⁰¹ mg/L at 25°C	
Henry's Law Constant: 4.990 x 10 ⁻⁰⁴ atm • m ³ /mol at 25°C	06
Log K_{ow}: 3.86	03
Possible SW-846 Analytical Methods	
Method	EQL (µg/L)
8250	NA
8270	10
	

Methyl parathion; Parathion methyl**CAS Name:** Phosphorothioic acid, O,O-dimethyl, O-(4-nitrophenyl)ester

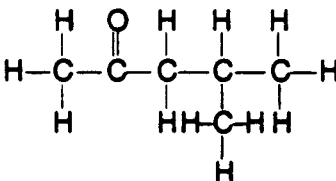
CAS Number:	298-00-0	REF
Empirical Formula:	C ₈ H ₁₀ NO ₅ PS	
MCL:	NA	
Molecular Weight:	263.23 g/mol	02
Melting Point:	37-38°C	02
Boiling Point:	143°C	14
Vapor Pressure:	9.8 x 10 ⁻⁶ mm Hg at 20°C	03
Specific Gravity:	1.358 at 20/4°C	02
Solubility:	5 x 10 ⁰¹ mg/L [UT]	03
Henry's Law Constant:	1.0 x 10 ⁻⁰⁷ atm • m ³ /mol at 20°C	14
Log K_{ow}:	2.04	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8270	10
8321	NA



4-Methyl-2-pentanone; Methyl isobutyl ketone

CAS Name: 2-Pentanone, 4-methyl-							
CAS Number: 108-10-1	REF						
Empirical Formula: C ₆ H ₁₂ O							
MCL: NA							
Molecular Weight: 100.16 g/mol							
Melting Point: -84.7 °C							
Boiling Point: 116.8 °C							
Vapor Pressure: 1.0 x 10 ⁰¹ mmHg at 30°C							
Specific Gravity: 0.7978 at 20°C							
Solubility: 1.91 x 10 ⁰⁴ mg/L [UT]							
Henry's Law Constant: 1.49 x 10 ⁻⁰⁵ atm • m ³ /mol at 25°C	04						
Log K_{ow}: 1.09	04						
<table> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(µg/L)</th></tr> <tr> <td>8015</td><td>NA</td></tr> </table>		Possible SW-846 Analytical Methods		Method	EQL(µg/L)	8015	NA
Possible SW-846 Analytical Methods							
Method	EQL(µg/L)						
8015	NA						
							

Methyl tert-butyl ether ***CAS Name:** Propane, 2-methoxy-2-methyl-**CAS Number:** 1634-04-4**Empirical Formula:** C₅H₁₂O**MCL:** NA**Molecular Weight:** 88.15 g/mol**Melting Point:** -109°C**Boiling Point:** 55.2°C**Vapor Pressure:** 2.45 x 10⁰² mm Hg at 25°C**Specific Gravity:** 0.7405 at 20/4°C**Solubility:** 4.8 x 10⁰⁴ mg/L [UT]**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

01

01

01

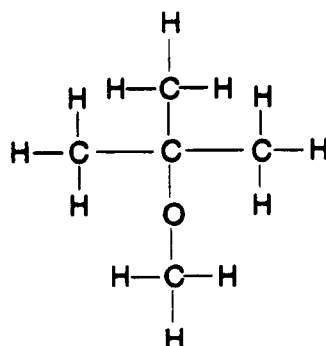
03

01

03

Possible SW-846 Analytical Methods
Method **EQL(μg/L)**

NA



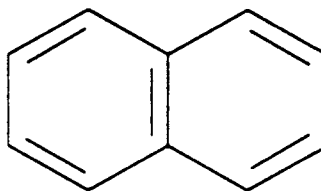
Naphthalene

CAS Name: Naphthalene

CAS Number:	91-20-3	REF
Empirical Formula:	C ₁₀ H ₈	
MCL:	NA	
Molecular Weight:	128.17 g/mol	01
Melting Point:	80.5°C	01
Boiling Point:	218 °C	01
Vapor Pressure:	8.2 x 10 ⁻⁰² mm Hg at 25°C	03
Specific Gravity:	1.162 at 20/4°C	04
Solubility:	3 x 10 ⁰¹ mg/L at 25°C	03
Henry's Law Constant:	4.83 x 10 ⁻⁰⁴ atm • m ³ /mol at 25°C	03
Log K_{ow}:	3.37	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8021	0.6
8100	NA
8250	16
8260	5
8270	10
8275	NA
8310	18



1,4-Naphthoquinone**CAS Name:** 1,4-Naphthalenedione**CAS Number:** 130-15-4**Empirical Formula:** C₁₀H₆O₂**MCL:** NA**Molecular Weight:** 158.16 g/mol**Melting Point:** 128.5°C**Boiling Point:** sublimes**Vapor Pressure:** NA**Specific Gravity:** 1.422 [UT]**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow}:** 1.71/1.78**REF**

01

01

01

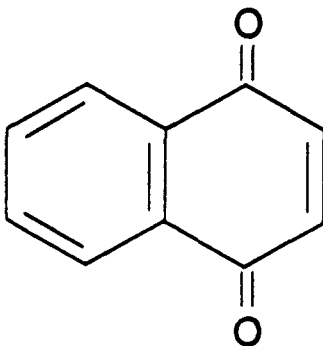
02

05

Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8270

10

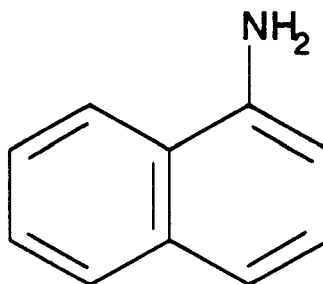


1-Naphthylamine ****CAS Name:** 1-Naphthalenamine

CAS Number:	134-32-7	REF
Empirical Formula:	C ₁₀ H ₉ N	
MCL:	NA	
Molecular Weight:	143.19 g/mol	01
Melting Point:	50°C	01
Boiling Point:	300.8 °C	01
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 104.3°C	03
Specific Gravity:	1.1229 at 25/25°C	01
Solubility:	1.7 x 10 ⁰³ mg/L [UT]	03
Henry's Law Constant:	1.27 x 10 ⁻¹⁰ atm • m ³ /mol at 25°C	04
Log K_{ow}:	2.22	03

Possible SW-846 Analytical Methods

Method	EQL (µg/L)
8250	NA
8270	10

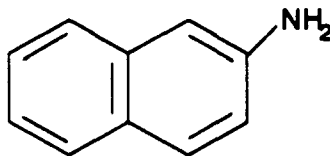


2-Naphthylamine**CAS Name:** 2-Naphthalenamine

CAS Number:	91-59-8	REF
Empirical Formula:	C ₁₀ H ₉ N	
MCL:	NA	
Molecular Weight:	143.19 g/mol	01
Melting Point:	113 °C	01
Boiling Point:	306.1 °C	01
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 108°C	03
Specific Gravity:	1.0614 at 98/4°C	01
Solubility:	5.86 x 10 ⁻⁰² mg/L at 20-30°C	04
Henry's Law Constant:	2.01 x 10 ⁻⁰⁹ atm • m ³ /mol at 25°C	04
Log K_{ow}:	2.25	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8250	NA
8270	10



Nickel**CAS Name:** Nickel**CAS Number:** 7440-02-0**Empirical Formula:** Ni**MCL:** 0.1 mg/L**Molecular Weight:** 58.69 g/mol**Melting Point:** 1455°C**Boiling Point:** 2730°C**Vapor Pressure:** 1×10^{00} mm Hg at 1800°C**Specific Gravity:** 8.90 [UT]**Solubility:** insoluble**Henry's Law Constant:** NA**Log K_{ow} :** NA**REF**

11

01

01

01

03

01

03

Possible SW-846 Analytical Methods**Method****EQL(μ g/L)**

6010

NA

6020

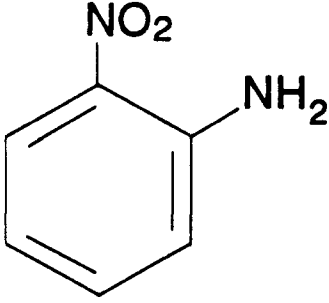
NA

7520

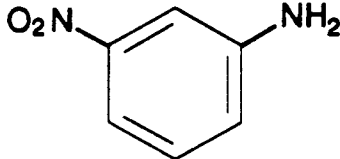
NA

Ni

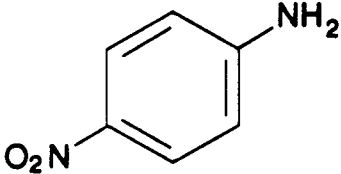
o-Nitroaniline; 2-Nitroaniline **

CAS Name: Benzenamine, 2-nitro-									
CAS Number: 88-74-4	REF								
Empirical Formula: C ₆ H ₆ N ₂ O ₂									
MCL: NA									
Molecular Weight: 138.13 g/mol	01								
Melting Point: 71.5°C	01								
Boiling Point: 284°C	01								
Vapor Pressure: <1 x 10 ⁻⁰¹ mm Hg at 30°C	03								
Specific Gravity: 1.442 at 15°C	01								
Solubility: 1.26 x 10 ⁰³ mg/L at 25°C	03								
Henry's Law Constant: 9.72 x 10 ⁻⁰⁵ atm • m ³ /mol at 25°C	04								
Log K_{ow}: 1.83	03								
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(µg/L)</th></tr> </thead> <tbody> <tr> <td>8250</td><td>NA</td></tr> <tr> <td>8270</td><td>50</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(µg/L)	8250	NA	8270	50
Possible SW-846 Analytical Methods									
Method	EQL(µg/L)								
8250	NA								
8270	50								
									

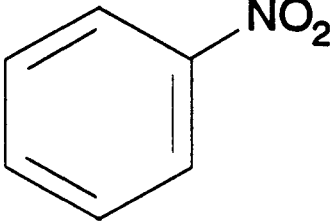
m-Nitroaniline; 3-Nitroaniline **

CAS Name: Benzenamine, 3-nitro-		
CAS Number:	99-09-2	REF
Empirical Formula:	C ₆ H ₆ N ₂ O ₂	
MCL:	NA	
Molecular Weight:	138.13 g/mol	
Melting Point:	114 °C	
Boiling Point:	decomposes at 305-307°C	
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 119.3°C	
Specific Gravity:	1.1747 at 160/4°C	
Solubility:	1.1 x 10 ⁰³ mg/L [UT]	
Henry's Law Constant: NA		
Log K_{ow}:	1.37	03
Possible SW-846 Analytical Methods		
Method	EQL (µg/L)	
8250	NA	
8270	50	
		

p-Nitroaniline; 4 Nitroaniline **

CAS Name: Benzenamine, 4-nitro-									
CAS Number: 100-01-6	REF								
Empirical Formula: C ₆ H ₆ N ₂ O ₂									
MCL: NA									
Molecular Weight: 138.13 g/mol	01								
Melting Point: 148-149 °C	01								
Boiling Point: 331.7 °C	01								
Vapor Pressure: 1.5 x 10 ⁻⁰³ mm Hg at 20°C	03								
Specific Gravity: 1.424 at 20/4°C	01								
Solubility: 8 x 10 ⁰² mg/L at 19°C	03								
Henry's Law Constant: 1.14 x 10 ⁻⁰⁶ atm • m ³ /mol at 25°C	04								
Log K_{ow}: 1.39	03								
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(µg/L)</th></tr> </thead> <tbody> <tr> <td>8250</td><td>NA</td></tr> <tr> <td>8270</td><td>20</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(µg/L)	8250	NA	8270	20
Possible SW-846 Analytical Methods									
Method	EQL(µg/L)								
8250	NA								
8270	20								
									

Nitrobenzene

CAS Name: Benzene, nitro-													
CAS Number: 98-95-3	REF												
Empirical Formula: C ₆ H ₅ NO ₂													
MCL: NA													
Molecular Weight: 123.11 g/mol													
Melting Point: 5.7 °C													
Boiling Point: 210.8 °C													
Vapor Pressure: 1.5 x 10 ⁻⁰¹ mm Hg at 20°C													
Specific Gravity: 1.2037 at 20/4°C													
Solubility: 1.9 x 10 ⁰³ mg/L at 20°C													
Henry's Law Constant: 2.38 x 10 ⁻⁰⁵ atm • m ³ /mol at 25°C	03												
Log K_{ow}: 1.85	03												
<table> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(μg/L)</th></tr> <tr> <td>8090</td><td>137/36</td></tr> <tr> <td>8250</td><td>19</td></tr> <tr> <td>8270</td><td>10</td></tr> <tr> <td>8330</td><td>NA</td></tr> </table>		Possible SW-846 Analytical Methods		Method	EQL(μg/L)	8090	137/36	8250	19	8270	10	8330	NA
Possible SW-846 Analytical Methods													
Method	EQL(μg/L)												
8090	137/36												
8250	19												
8270	10												
8330	NA												
													

o-Nitrophenol; 2-Nitrophenol**CAS Name:** Phenol, 2-nitro-**CAS Number:** 88-75-5**REF****Empirical Formula:** $C_6H_5NO_3$ **MCL:** NA**Molecular Weight:** 139.11 g/mol

01

Melting Point: 45-46 °C

01

Boiling Point: 216 °C

01

Vapor Pressure: 1×10^{00} mm Hg at 49.3°C

03

Specific Gravity: 1.485 at 14°C

01

Solubility: 2.1×10^{03} mg/L at 20°C

03

Henry's Law Constant: 3.5×10^{-08} atm • m³/mol [UT]

04

Log K_{ow}: 1.79

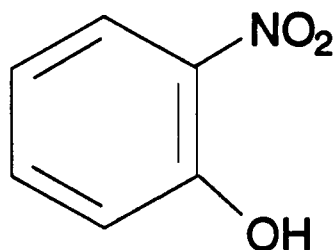
03

Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

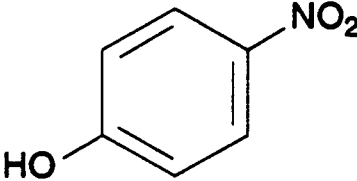
8040 4.5

8250 36

8270 10



p-Nitrophenol; 4-Nitrophenol

CAS Name: Phenol, 4-nitro-													
CAS Number: 100-02-7	REF												
Empirical Formula: C ₆ H ₅ NO ₃													
MCL: NA													
Molecular Weight: 139.11 g/mol													
Melting Point: 114-116 °C													
Boiling Point: sublimes													
Vapor Pressure: 2.2 x 10 ⁰⁰ mm Hg at 146°C													
Specific Gravity: 1.479 at 20°C													
Solubility: 1.6 x 10 ⁰⁴ mg/L at 25°C													
Henry's Law Constant: 3 x 10 ⁻⁰⁵ atm • m ³ /mol at 20°C	01												
Log K_{ow}: 1.91	01												
	02												
	03												
	03												
	01												
	03												
	04												
	03												
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(µg/L)</th></tr> </thead> <tbody> <tr> <td>8040</td><td>28</td></tr> <tr> <td>8151</td><td>NA</td></tr> <tr> <td>8250</td><td>24</td></tr> <tr> <td>8270</td><td>50</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(µg/L)	8040	28	8151	NA	8250	24	8270	50
Possible SW-846 Analytical Methods													
Method	EQL(µg/L)												
8040	28												
8151	NA												
8250	24												
8270	50												
													

4-Nitroquinoline-1-oxide ****CAS Name:** Quinoline, 4-nitro-,1-oxide**CAS Number:** 56-57-5**Empirical Formula:** C₉H₆N₂O₃**MCL:** NA**Molecular Weight:** 190.16 g/mol**Melting Point:** 154°C**Boiling Point:** NA**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

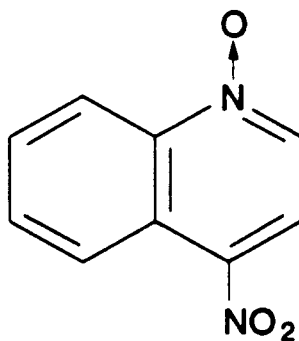
01

01

Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

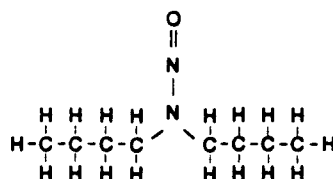
8270

40



N-Nitrosodi-n-butylamine ****CAS Name:** 1-Butanamine, N-butyl-N-nitroso-**CAS Number:** 924-16-3**Empirical Formula:** $C_9H_{19}N_2O$ **MCL:** NA**Molecular Weight:** 158.24 g/mol**Melting Point:** NA**Boiling Point:** NA**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow} :** NA**REF****Possible SW-846 Analytical Methods**

Method	EQL(μ g/L)
8250	NA
8270	10



N-Nitrosodiethylamine ****CAS Name:** Ethanamine, N-ethyl-N-nitroso-**CAS Number:** 55-18-5**REF****Empirical Formula:** C₄H₁₀N₂O**MCL:** NA**Molecular Weight:** 102.14 g/mol

01

Melting Point: NA**Boiling Point:** 176.9°C

01

Vapor Pressure: NA**Specific Gravity:** 0.9422 at 20/4°C

01

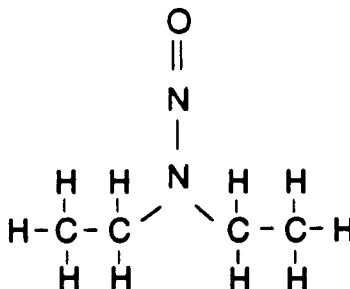
Solubility: soluble

03

Henry's Law Constant: NA**Log K_{ow}:** NA**Possible SW-846 Analytical Methods****Method****EQL(μg/L)**

8270

20

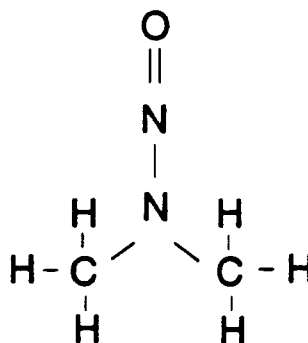


N-Nitrosodimethylamine ****CAS Name:** Methanamine, N-methyl-N-nitroso-

CAS Number:	62-75-9	REF
Empirical Formula:	C ₂ H ₅ N ₂ O	
MCL:	NA	
Molecular Weight:	74.08 g/mol	01
Melting Point:	NA	
Boiling Point:	154°C	01
Vapor Pressure:	8 x 10 ⁰⁰ mm Hg at 25°C	03
Specific Gravity:	1.0059 at 20/4°C	01
Solubility:	miscible	03
Henry's Law Constant:	1.43 x 10 ⁻⁰¹ atm • m ³ /mol at 25°C	04
Log K _{ow} :	-0.47	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8070	NA
8250	NA
8270	NA

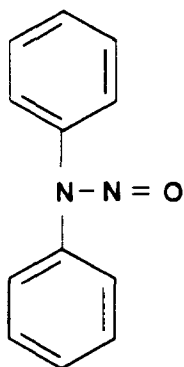


N-Nitrosodiphenylamine ****CAS Name:** Benzenamine, N-nitroso-N-phenyl-

CAS Number:	86-30-6	REF
Empirical Formula:	C ₁₂ H ₁₀ N ₂ O	
MCL:	NA	
Molecular Weight:	198.23 g/mol	01
Melting Point:	66.5°C	01
Boiling Point:	NA	
Vapor Pressure:	1 x 10 ⁻⁰¹ mm Hg [UT]	03
Specific Gravity:	NA	
Solubility:	3.5 x 10 ⁰¹ mg/L [UT]	03
Henry's Law Constant:	3.13 atm • m ³ /mol [UT]	03
Log K_{ow}:	2.79	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8070	NA
8250	19
8270	10

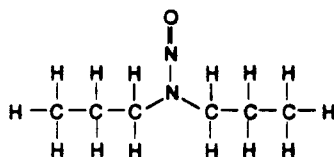


N-Nitrosodipropylamine ****CAS Name:** 1-Propanamine, N-nitroso-N-propyl-

CAS Number:	621-64-7	REF
Empirical Formula:	C ₆ H ₁₄ N ₂ O	
MCL:	NA	
Molecular Weight:	130.19 g/mol	01
Melting Point:	NA	
Boiling Point:	206°C	01
Vapor Pressure:	NA	
Specific Gravity:	0.9163 at 20/4°C	01
Solubility:	9.9 x 10 ⁰³ mg/L at 25°C	03
Henry's Law Constant:	NA	
Log K_{ow}:	1.31	03

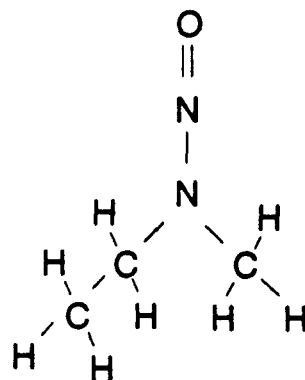
Possible SW-846 Analytical Methods

Method	EQL (µg/L)
8070	NA
8250	NA
8270	10

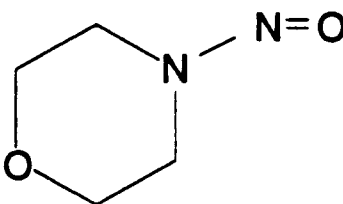


N-Nitrosomethylethylamine ****CAS Name:** Ethanamine, N-methyl-N-nitroso-**CAS Number:** 10595-95-6**REF****Empirical Formula:** C₃H₈N₂O**MCL:** NA**Molecular Weight:** 88.11 g/mol**Melting Point:** NA**Boiling Point:** NA**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow}:** NA

Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
8270	NA

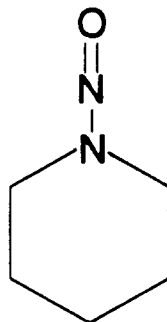


N-Nitrosomorpholine **

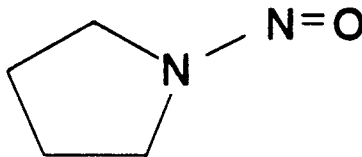
CAS Name: Morpholine, 4-nitroso-	
CAS Number: 59-89-2	REF 02 02 02 03
Empirical Formula: C ₄ H ₈ N ₂ O ₂	
MCL: NA	
Molecular Weight: 116.11 g/mol	
Melting Point: 29°C	
Boiling Point: 224-224.5°C at 747 mm Hg	
Vapor Pressure: NA	
Specific Gravity: NA	
Solubility: soluble	
Henry's Law Constant: NA	
Log K_{ow}: NA	
Possible SW-846 Analytical Methods	
Method	EQL(µg/L)
8270	NA
	

N-Nitrosopiperidine **

CAS Name: Piperidine, 1-nitroso-	
CAS Number: 100-75-4	REF 01 01 01 03
Empirical Formula: C ₅ H ₁₀ N ₂ O	
MCL: NA	
Molecular Weight: 114.15 g/mol	
Melting Point: NA	
Boiling Point: 217°C at 721 mm Hg	
Vapor Pressure: NA	
Specific Gravity: 1.0631 at 18.5/4°C	
Solubility: soluble	
Henry's Law Constant: NA	
Log K_{ow}: NA	
Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
8250	NA
8270	20



N-Nitrosopyrrolidine **

CAS Name: Pyrrolidine, 1-nitroso-	
CAS Number: 930-55-2	REF 02 02 03
Empirical Formula: C ₄ H ₈ N ₂ O	
MCL: NA	
Molecular Weight: 100.11 g/mol	
Melting Point: NA	
Boiling Point: 104-106 °C at 20 mm Hg	
Vapor Pressure: NA	
Specific Gravity: NA	
Solubility: soluble	
Henry's Law Constant: NA	
Log K_{ow}: NA	
Possible SW-846 Analytical Methods	
Method	EQL(µg/L)
8270	40
	

5-Nitro-o-toluidine**CAS Name:** Benzenamine, 2-methyl-5-nitro-**CAS Number:** 99-55-8**Empirical Formula:** $C_7H_8N_2O_2$ **MCL:** NA**Molecular Weight:** 152.15 g/mol**Melting Point:** 107 - 108°C**Boiling Point:** NA**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow} :** NA**REF**

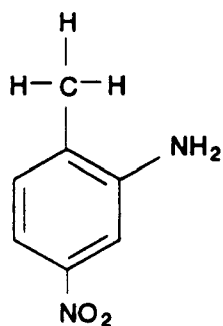
01

01

Possible SW-846 Analytical Methods**Method** **EQL(μ g/L)**

8270

10



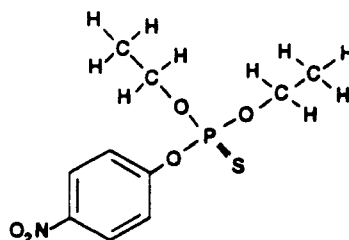
Parathion

CAS Name: Phosphorothioic acid, O,O-diethyl, -O-(4-nitrophenyl)ester

CAS Number:	56-38-2	REF
Empirical Formula:	C ₁₀ H ₁₄ NO ₅ PS	
MCL:	NA	
Molecular Weight:	291.27 g/mol	02
Melting Point:	6°C	02
Boiling Point:	375°C	02
Vapor Pressure:	3 x 10 ⁻⁰³ mm Hg at 24°C	03
Specific Gravity:	1.26 at 25/4°C	02
Solubility:	2.4 x 10 ⁰¹ [UT]	03
Henry's Law Constant:	8.56 x 10 ⁻⁰⁸ atm • m ³ /mol at 25°C	04
Log K_{ow}:	3.81 at 20°C	03

Possible SW-846 Analytical Methods

Method	EQL (μg/L)
8270	10



Pentachlorobenzene**CAS Name:** Benzene, pentachloro-**CAS Number:** 608-93-5**REF****Empirical Formula:** C₆HCl₅**MCL:** NA**Molecular Weight:** 250.34 g/mol

01

Melting Point: 86°C

01

Boiling Point: 277 °C

01

Vapor Pressure: 6.0 x 10⁻⁰³ mm Hg at 20-30°C

04

Specific Gravity: 1.8342 at 16.5°C

01

Solubility: 2.4 x 10⁻⁰¹ mg/L at 22°C

03

Henry's Law Constant: 7.1 x 10⁻⁰³ atm • m³/mol at 20°C

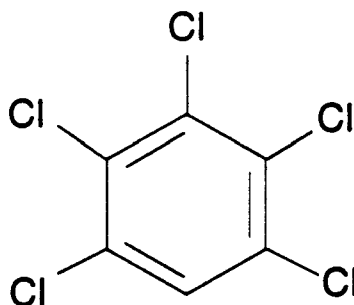
04

Log K_{ow}: 5.17

04

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8121	0.38
8250	NA
8270	10

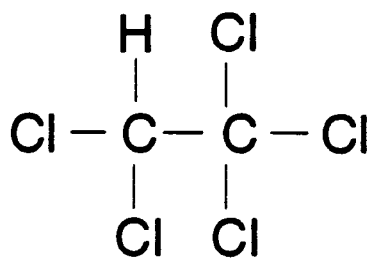


Pentachloroethane ****CAS Name:** Ethane, pentachloro-

CAS Number:	76-01-7	REF
Empirical Formula:	C ₂ HCl ₅	
MCL:	NA	
Molecular Weight:	202.29 g/mol	01
Melting Point:	-29 °C	01
Boiling Point:	162 °C	01
Vapor Pressure:	3.4 x 10 ⁰⁰ mm Hg at 20°C	03
Specific Gravity:	1.6796 at 20/4°C	01
Solubility:	5 x 10 ⁰² mg/L [UT]	03
Henry's Law Constant:	1.815 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	06
Log K_{ow}:	2.89	04

Possible SW-846 Analytical Methods

Method	EQL (µg/L)
8240	10



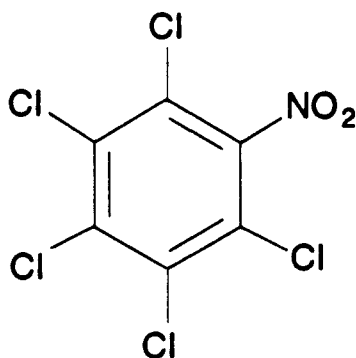
Pentachloronitrobenzene

CAS Name: Benzene, pentachloronitro-

CAS Number:	82-68-8	REF
Empirical Formula:	C ₆ Cl ₅ NO ₂	
MCL:	NA	
Molecular Weight:	295.36 g/mol	02
Melting Point:	144 °C	02
Boiling Point:	328 °C	02
Vapor Pressure:	1.35 x 10 ⁻⁰² mm Hg at 25°C	03
Specific Gravity:	1.718 at 25/4°C	02
Solubility:	NA	
Henry's Law Constant:	NA	
Log K_{ow}:	NA	

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8250	NA
8270	20

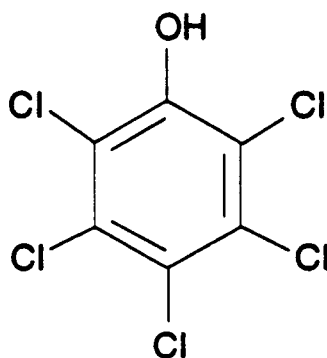


Pentachlorophenol**CAS Name:** Phenol, pentachloro-

CAS Number:	87-86-5	REF
Empirical Formula:	C ₆ HCl ₅ O	
MCL:	0.001 mg/L	09
Molecular Weight:	266.34 g/mol	01
Melting Point:	191 °C	01
Boiling Point:	decomposes at 309-310 °C at 757 mm Hg	01
Vapor Pressure:	1.1 x 10 ⁻⁰⁴ mm Hg at 20°C	03
Specific Gravity:	1.978 at 22/4°C	01
Solubility:	1.4 x 10 ⁰¹ mg/L at 20°C	03
Henry's Law Constant:	2.8 x 10 ⁻⁰⁶ atm • m ³ /mol at 20°C	03
Log K_{ow}:	5.01	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8040	74
8151	NA
8250	36
8270	50



Phenacetin**CAS Name:** Acetamide, N-(4-ethoxyphenyl)**CAS Number:** 62-44-2**REF****Empirical Formula:** C₁₀H₁₃NO₂**MCL:** NA**Molecular Weight:** 179.21 g/mol

02

Melting Point: 134-135 °C

02

Boiling Point: NA**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** 7.6 x 10⁰² mg/L [UT]

03

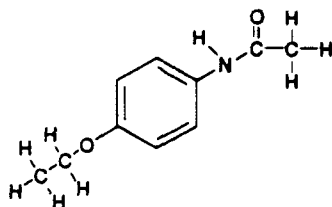
Henry's Law Constant: NA**Log K_{ow}:** 1.58

03

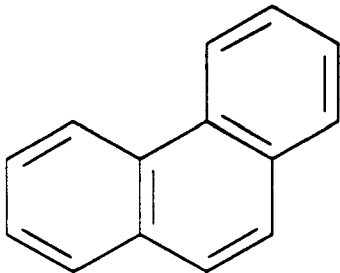
Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

8250 NA

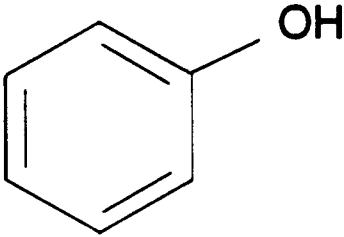
8270 20



Phenanthrene

CAS Name: Phenanthrene											
CAS Number: 85-01-8	REF										
Empirical Formula: C ₁₄ H ₁₀											
MCL: NA											
Molecular Weight: 178.23 g/mol											
Melting Point: 101 °C											
Boiling Point: 340 °C											
Vapor Pressure: 1 x 10 ⁰⁰ mm Hg at 118.2°C											
Specific Gravity: 0.9800 at 4°C											
Solubility: 8.16 x 10 ⁻⁰¹ mg/L at 21°C											
Henry's Law Constant: 3.93 x 10 ⁻⁰⁵ atm • m ³ /mol at 25°C	03										
Log K_{ow}: 4.46	03										
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(μg/L)</th></tr> </thead> <tbody> <tr> <td>8250</td><td>54</td></tr> <tr> <td>8270</td><td>10</td></tr> <tr> <td>8275</td><td>NA</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(μg/L)	8250	54	8270	10	8275	NA
Possible SW-846 Analytical Methods											
Method	EQL(μg/L)										
8250	54										
8270	10										
8275	NA										
											

Phenol

CAS Name: Phenol		
CAS Number:	108-95-2	REF
Empirical Formula:	C ₆ H ₆ O	
MCL:	NA	
Molecular Weight:	94.11 g/mol	
Melting Point:	43°C	
Boiling Point:	181.7 °C	
Vapor Pressure:	3.5 x 10 ⁻⁰¹ mm Hg at 25°C	
Specific Gravity:	1.0576 at 20/4°C	
Solubility:	8 x 10 ⁻⁰⁴ mg/L at 25°C	
Henry's Law Constant:	1.3 x 10 ⁻⁰⁶ atm • m ³ /mol at 25°C	
Log K_{ow}:	1.46	
Possible SW-846 Analytical Methods		
Method	EQL(µg/L)	
8040	1.4	
8250	15	
8270	10	

p-Phenylenediamine ****CAS Name:** 1,4-Benzenediamine**CAS Number:** 106-50-3**Empirical Formula:** C₆H₈N₂**MCL:** NA**Molecular Weight:** 108.14 g/mol**Melting Point:** 140°C**Boiling Point:** 267°C**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** 3.8 x 10⁰⁴ mg/L at 24°C**Henry's Law Constant:** NA**Log K_{ow}:** -0.26**REF**

01

01

01

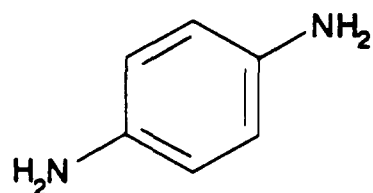
03

03

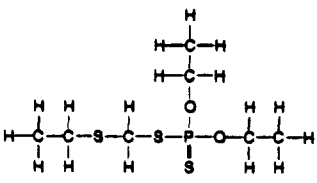
Possible SW-846 Analytical Methods**Method** **EQL (μg/L)**

8270

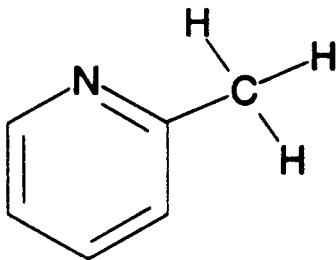
10



Phorate

CAS Name: Phosphorodithioic acid, O,O-diethyl-S-[(ethylthio)methyl]ester											
CAS Number: 298-02-2	REF 02 02 03 02 03 03										
Empirical Formula: C ₂ H ₁₇ O ₂ PS ₃											
MCL: NA											
Molecular Weight: 260.40 g/mol											
Melting Point: NA											
Boiling Point: 125-127°C at 2 mm Hg											
Vapor Pressure: 8.4 x 10 ⁻⁰⁴ mm Hg at 20°C											
Specific Gravity: 1.156 at 25/4°C											
Solubility: 5 x 10 ⁰¹ mg/L [UT]											
Henry's Law Constant: NA											
Log K_{ow}: 2.92	03										
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(μg/L)</th></tr> </thead> <tbody> <tr> <td>8140</td><td>1.5</td></tr> <tr> <td>8141</td><td>0.4</td></tr> <tr> <td>8270</td><td>10</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(μg/L)	8140	1.5	8141	0.4	8270	10
Possible SW-846 Analytical Methods											
Method	EQL(μg/L)										
8140	1.5										
8141	0.4										
8270	10										
											

2-Picoline **

CAS Name: Pyridine, 2-methyl-		
CAS Number:	109-06-8	REF
Empirical Formula:	C ₈ H ₇ N	
MCL:	NA	
Molecular Weight:	93.13 g/mol	
Melting Point:	-66.8°C	
Boiling Point:	128.8°C	
Vapor Pressure:	1.0 x 10 ⁰¹ mm Hg at 24.4°C	
Specific Gravity:	0.9443 at 20/4°C	
Solubility:	miscible	
Henry's Law Constant:	2.863 x 10 ⁻⁰⁶ atm • m ³ /mol at 25°C	06
Log K_{ow}:	1.06	03
Possible SW-846 Analytical Methods		
Method	EQL(μg/L)	
8020	NA	
8240	NA	
8250	NA	
8270	NA	

Polychlorinated biphenyls; PCBs; Aroclors**CAS Name:** 1,1'-Biphenyl, chloro derivatives**CAS Number:** 1335-36-3**REF****Empirical Formula:** NA**MCL:** 0.0005 mg/L

08

Molecular Weight: NA**Melting Point:** NA**Boiling Point:** NA**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow} :** NA**Possible SW-846 Analytical Methods****Method****EQL(μ g/L)**

8080

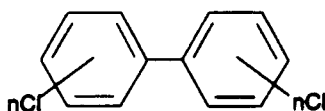
NA

8250

NA

8270

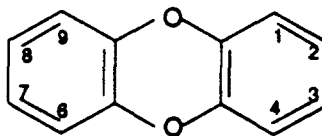
NA



Polychlorinated dibenzo-p-dioxins; PCDDs**CAS Name:** Dibenzo[b,e][1,4]dioxin, chloro derivatives**CAS Number:** NA**Empirical Formula:** NA**MCL:** NA**Molecular Weight:** NA**Melting Point:** NA**Boiling Point:** NA**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow} :** NA**REF****Possible SW-846 Analytical Methods****Method****EQL ($\mu\text{g/L}$)**

8280

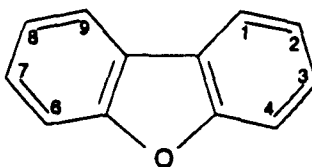
NA



Polychlorinated dibenzofurans; PCDFs**CAS Name:** Dibenzofuran, chloro derivatives**CAS Number:** NA**Empirical Formula:** NA**MCL:** NA**Molecular Weight:** NA**Melting Point:** NA**Boiling Point:** NA**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow} :** NA**REF****Possible SW-846 Analytical Methods**
Method **EQL($\mu\text{g/L}$)**

8280

NA

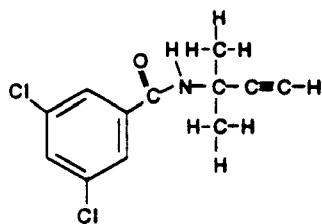


Pronamide**CAS Name:** Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-

CAS Number:	23950-58-5	REF
Empirical Formula:	C ₁₂ H ₁₁ Cl ₂ NO	
MCL:	NA	
Molecular Weight:	256.13 g/mol	02
Melting Point:	155-156°C	02
Boiling Point:	NA	
Vapor Pressure:	8.5 x 10 ⁻⁰⁵ mm Hg [UT]	03
Specific Gravity:	NA	
Solubility:	1.5 x 10 ⁰¹ mg/L at 25°C	02
Henry's Law Constant:	NA	
Log K_{ow}:	3.43	03

Possible SW-846 Analytical Methods	
Method	EQL (μg/L)
8250	NA
8270	10

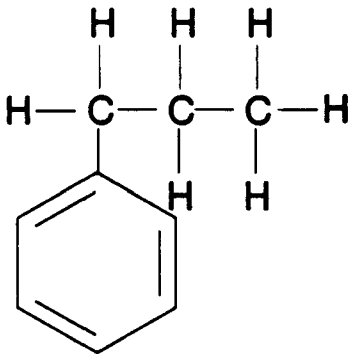
8250	NA
8270	10



Propionitrile; Ethyl cyanide

CAS Name: Propanenitrile							
CAS Number: 107-12-0	REF						
Empirical Formula: C ₃ H ₅ N							
MCL: NA							
Molecular Weight: 55.08 g/mol	01						
Melting Point: -92.9 °C	01						
Boiling Point: 97.3°C	01						
Vapor Pressure: 4.0 x 10 ⁰¹ mm Hg at 22°C	03						
Specific Gravity: 0.7818 at 20/4°C	01						
Solubility: 1.03 x 10 ⁰⁵ mg/L at 25°C	03						
Henry's Law Constant: NA							
Log K_{ow}: 0.04	03						
<table border="1"> <thead> <tr> <th colspan="2">Possible SW-846 Analytical Methods</th></tr> <tr> <th>Method</th><th>EQL(μg/L)</th></tr> </thead> <tbody> <tr> <td>8240</td><td>100</td></tr> </tbody> </table>		Possible SW-846 Analytical Methods		Method	EQL(μg/L)	8240	100
Possible SW-846 Analytical Methods							
Method	EQL(μg/L)						
8240	100						
$ \begin{array}{c} \text{H} \quad \text{H} \\ \quad \\ \text{H} - \text{C} - \text{C} - \text{C} \equiv \text{N} \\ \quad \\ \text{H} \quad \text{H} \end{array} $							

n-Propylbenzene *

CAS Name: Benzene, propyl-		
CAS Number:	103-65-1	REF
Empirical Formula:	C ₉ H ₁₂	
MCL:	NA	
Molecular Weight:	120.19 g/mol	
Melting Point:	-99.5 °C	
Boiling Point:	159.2 °C	
Vapor Pressure:	2.5 x 10 ⁰⁰ mm Hg at 20°C	
Specific Gravity:	0.8620 at 20/4°C	
Solubility:	6 x 10 ⁰¹ mg/L at 15°C	
Henry's Law Constant:	1.021 x 10 ⁻⁰² atm • m ³ /mol at 25°C	06
Log K_{ow}:	3.68	03
Possible SW-846 Analytical Methods		
Method	EQL(μg/L)	
8021	0.04	
8260	5	

Pyrene**CAS Name:** Pyrene**CAS Number:** 129-00-0**REF****Empirical Formula:** C₁₆H₁₀**MCL:** NA**Molecular Weight:** 202.26 g/mol

01

Melting Point: 156 °C

01

Boiling Point: 393 °C

01

Vapor Pressure: 2.5 x 10⁻⁰⁰ mm Hg at 200°C

03

Specific Gravity: 1.271 at 23/4°C

01

Solubility: 1.6 x 10⁻⁰¹ mg/L at 26°C

03

Henry's Law Constant: 5.1 x 10⁻⁰⁶ atm • m³/mol at 25°C

03

Log K_{ow}: 5.18

03

Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8100

NA

8250

19

8270

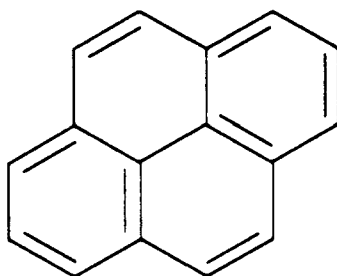
10

8275

NA

8310

2.7



Pyridine ****CAS Name:** Pyridine**CAS Number:** 110-86-1**Empirical Formula:** C₅H₅N**MCL:** NA**Molecular Weight:** 79.10 g/mol**Melting Point:** -42 °C**Boiling Point:** 115.5 °C**Vapor Pressure:** 1.4 x 10⁰¹ mm Hg at 20°C**Specific Gravity:** 0.9819 at 20°C**Solubility:** miscible**Henry's Law Constant:** 1.106 x 10⁻⁰⁵ atm • m³/mol at 25°C**Log K_{ow}:** 0.65**REF**

01

01

01

03

01

03

06

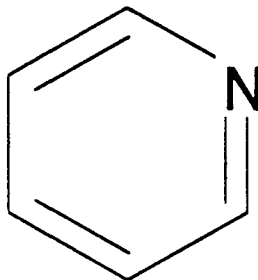
03

Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

8020 NA

8240 NA

8270 NA

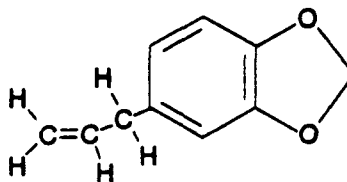


Safrole**CAS Name:** 1,3-Benzodioxole, 5-(2-propenyl)-

CAS Number:	94-59-7	REF
Empirical Formula:	C ₁₀ H ₁₀ O ₂	
MCL:	NA	
Molecular Weight:	162.19 g/mol	01
Melting Point:	11.2°C	01
Boiling Point:	234.5 °C	01
Vapor Pressure:	NA	
Specific Gravity:	1.000 at 20/4°C	01
Solubility:	insoluble	03
Henry's Law Constant:	NA	
Log K_{ow}:	NA	

Possible SW-846 Analytical Methods
Method **EQL(μg/L)**

8270 10



Selenium

CAS Name: Selenium		
CAS Number:	7782-49-2	REF 08 01 01 01 01
Empirical Formula:	Se	
MCL:	0.05 mg/L	
Molecular Weight:	78.96 ±3 g/mol	
Melting Point:	217 °C	
Boiling Point:	684 ±1.0°C	
Vapor Pressure:	NA	
Specific Gravity:	4.81 at 20/4 + 1.0°C	
Solubility:	NA	
Henry's Law Constant:	NA	
Log K_{ow}:	NA	
Possible SW-846 Analytical Methods		Se
Method	EQL(µg/L)	
6010	NA	
7740	NA	
7741	NA	
7742	NA	

Silver

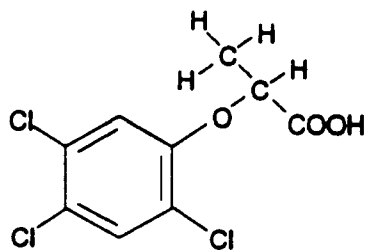
CAS Name: Silver	
CAS Number: 7440-22-4	REF 01 01 01 03 01 03
Empirical Formula: Ag	
MCL: NA	
Molecular Weight: 107.8682 $\pm$ 3 g/mol	
Melting Point: 961.93°C	
Boiling Point: 2212°C	
Vapor Pressure: 1 x 10 ⁰⁰ mm Hg at 1310°C	
Specific Gravity: 10.5 at 20°C	
Solubility: insoluble	
Henry's Law Constant: NA	
Log K_{ow}: NA	
Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
6010	NA
6020	NA
7760	NA
7761	NA

Ag

Silvex; 2,4,5-TP**CAS Name:** Propanoic acid, 2-(2,4,5-trichlorophenoxy)-

CAS Number:	93-72-1	REF
Empirical Formula:	C ₉ H ₇ Cl ₃ O ₃	
MCL:	0.05 mg/L	08
Molecular Weight:	269.53	02
Melting Point:	181.6°C	02
Boiling Point:	NA	
Vapor Pressure:	NA	
Specific Gravity:	NA	
Solubility:	1.4 x 10 ⁰² mg/L at 25°C	03
Henry's Law Constant:	NA	
Log K_{ow}:	2.44	03

Possible SW-846 Analytical Methods	
Method	EQL (μg/L)
8150	1.7
8151	NA



Styrene**CAS Name:** Benzene, ethenyl-**CAS Number:** 100-42-5**Empirical Formula:** C_8H_8 **MCL:** 0.1 mg/L**Molecular Weight:** 104.15 g/mol**Melting Point:** -30.6 °C**Boiling Point:** 145.2 °C**Vapor Pressure:** 5×10^{00} mm Hg at 20°C**Specific Gravity:** 0.9060 at 20/4°C**Solubility:** 3×10^{02} mg/L at 20°C**Henry's Law Constant:** 2.633×10^{-03} atm • m³/mol at 25°C**Log K_{ow} :** 3.16**REF**

08

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03

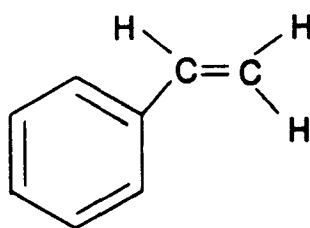
Possible SW-846 Analytical Methods
Method **EQL(μg/L)**

8020 NA

8021 0.1

8240 5

8260 5



Sulfide**CAS Name:** Sulfide**CAS Number:** 18496-25-8**Empirical Formula:** S⁻²**MCL:** NA**Molecular Weight:** 32.06 g/mol**Melting Point:** NA**Boiling Point:** NA**Vapor Pressure:** NA**Specific Gravity:** NA**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

01

Possible SW-846 Analytical Methods**Method** **EQL(μg/L)**

9030

NA

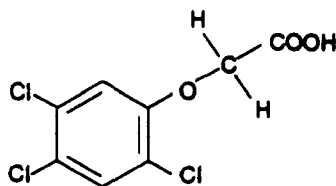
S=

2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid**CAS Name:** Acetic acid, (2,4,5-trichlorophenoxy)-

CAS Number:	93-76-5	REF
Empirical Formula:	C ₈ H ₅ Cl ₃ O ₃	
MCL:	NA	
Molecular Weight:	255.48 g/mol	01
Melting Point:	157-158 °C	01
Boiling Point:	NA	
Vapor Pressure:	6.46 x 10 ⁻⁰⁶ mm Hg at 25°C	04
Specific Gravity:	1.80 at 20/20°C	02
Solubility:	2.78 x 10 ⁰² mg/L at 25°C	03
Henry's Law Constant:	4.87 x 10 ⁻⁰⁸ atm • m ³ /mol at 25°C	04
Log K_{ow}:	0.60	04

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8150	2.0
8151	NA

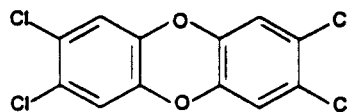


2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo-p-dioxin**CAS Name:** Dibenzo[b,e][1,4]dioxin,2,3,7,8-tetrachloro-

CAS Number:	1746-01-6	REF
Empirical Formula:	C ₁₂ H ₄ Cl ₄ O ₂	
MCL:	3 x 10 ⁻⁰⁸ mg/L	11
Molecular Weight:	321.96 g/mol	02
Melting Point:	295 °C	02
Boiling Point:	412.2 °C	04
Vapor Pressure:	7.4 x 10 ⁻¹⁰ mm Hg at 25°C	03
Specific Gravity:	1.827 [UT]	04
Solubility:	1.93 x 10 ⁻⁰⁵ mg/L [UT]	03
Henry's Law Constant:	2.1 x 10 ⁻⁰³ atm • m ³ /mol [UT]	03
Log K_{ow}:	6.64	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8280	NA
8290	NA

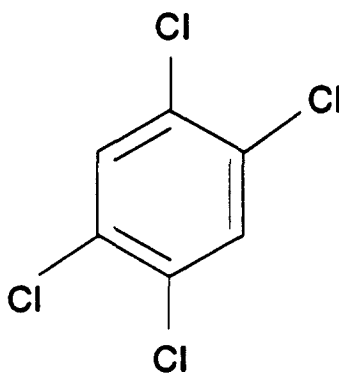


1,2,4,5-Tetrachlorobenzene**CAS Name:** Benzene, 1,2,4,5-tetrachloro-

CAS Number:	95-94-3	REF
Empirical Formula:	C ₆ H ₂ Cl ₄	
MCL:	NA	
Molecular Weight:	215.89 g/mol	01
Melting Point:	139-140 °C	01
Boiling Point:	243-246 °C	01
Vapor Pressure:	<1 x 10 ⁻⁰¹ mm Hg at 25°C	04
Specific Gravity:	1.858 at 21/4°C	05
Solubility:	3 x 10 ⁻⁰¹ mg/L at 22°C	03
Henry's Law Constant:	1.0 x 10 ⁻⁰² atm • m ³ /mol at 20°C	04
Log K_{ow}:	4.51	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8121	0.095
8250	NA
8270	10



1,1,1,2-Tetrachloroethane**CAS Name:** Ethane, 1,1,1,2-tetrachloro-**CAS Number:** 630-20-6**Empirical Formula:** $C_2H_2Cl_4$ **MCL:** NA**Molecular Weight:** 167.85 g/mol**Melting Point:** -70.2 °C**Boiling Point:** 130.5 °C**Vapor Pressure:** 1.0×10^{01} mm Hg at 19.3°C**Specific Gravity:** 1.5406 at 20/4°C**Solubility:** 2×10^{02} mg/L at 20°C**Henry's Law Constant:** 1.1×10^{-02} atm • m³/mol [UT]**Log K_{ow} :** 3.04**REF**

01

01

01

03

01

03

03

03

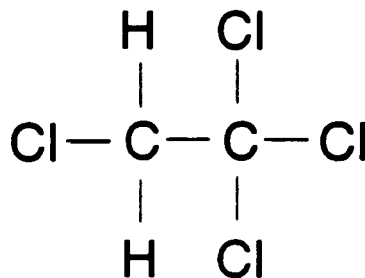
Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8010 NA

8021 0.05

8240 5

8260 5



1,1,2,2-Tetrachloroethane**CAS Name:** Ethane, 1,1,2,2-tetrachloro-**CAS Number:** 79-34-5**REF****Empirical Formula:** C₂H₂Cl₄**MCL:** NA**Molecular Weight:** 167.85 g/mol

01

Melting Point: -36 °C

01

Boiling Point: 146.2 °C

01

Vapor Pressure: 4 x 10⁰⁰ mm Hg at 25°C

03

Specific Gravity: 1.5953 at 20/4°C

01

Solubility: 2.9 x 10⁰³ mg/L at 20°C

03

Henry's Law Constant: 3.8 x 10⁻⁰⁴ atm • m³/mol at 20°C

03

Log K_{ow}: 2.39

03

Possible SW-846 Analytical Methods**Method****EQL(µg/L)**

8010

0.3

8021

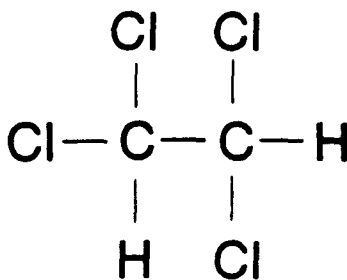
0.1

8240

5

8260

5

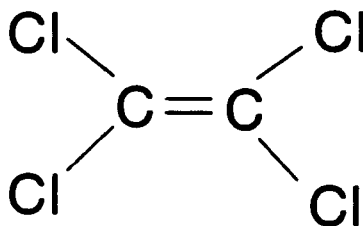


Tetrachloroethylene; Perchloroethylene**CAS Name:** Ethene, tetrachloro-

CAS Number:	127-18-4	REF
Empirical Formula:	C ₂ Cl ₄	
MCL:	0.005 mg/L	08
Molecular Weight:	165.83 g/mol	01
Melting Point:	-19 °C	01
Boiling Point:	121 °C	01
Vapor Pressure:	1.9 x 10 ⁰¹ mm Hg at 25°C	03
Specific Gravity:	1.6227 at 20/4°C	01
Solubility:	1.5 x 10 ⁰² mg/L at 25°C	03
Henry's Law Constant:	2.685 x 10 ⁻⁰² atm • m ³ /mol at 25°C	06
Log K_{ow}:	2.53	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8010	0.3
8021	0.5/0.4
8240	5
8260	5



2,3,4,6-Tetrachlorophenol**CAS Name:** Phenol, 2,3,4,6-Tetrachloro-**CAS Number:** 58-90-2**REF****Empirical Formula:** $C_6H_2Cl_4O$ **MCL:** NA**Molecular Weight:** 231.89 g/mol

01

Melting Point: 70°C

01

Boiling Point: 150 °C at 15 mm Hg

01

Vapor Pressure: 6.0×10^{01} mm Hg at 190°C

03

Specific Gravity: 1.6 at 60/4°C

05

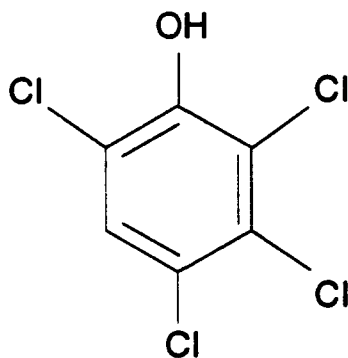
Solubility: NA**Henry's Law Constant:** NA**Log K_{ow} :** NA**Possible SW-846 Analytical Methods**
Method **EQL(μ g/L)**

8250

NA

8270

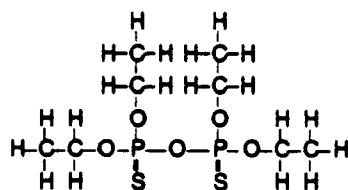
10



Tetraethyl dithiopyrophosphate ****CAS Name:** Thiodiphosphoric acid, tetraethyl ester

CAS Number:	3689-24-5	REF
Empirical Formula:	$C_8H_{20}O_5P_2S_2$	
MCL:	NA	
Molecular Weight:	322.31 g/mol	01
Melting Point:	NA	
Boiling Point:	136-139°C at 2 mm Hg	01
Vapor Pressure:	1.7×10^{-04} mmHg at 20°C	03
Specific Gravity:	1.196 at 25/4°C	01
Solubility:	2.5×10^{01} mg/L [UT]	02
Henry's Law Constant:	2.88×10^{-06} atm • m ³ /mol at 20°C	04
Log K_{ow}:	3.83	03

Possible SW-846 Analytical Methods	
Method	EQL(µg/L)
8270	NA



Thallium**CAS Name:** Thallium**CAS Number:** 7440-28-0**Empirical Formula:** Tl**MCL:** 0.002 mg/L**Molecular Weight:** 204.383 g/mol**Melting Point:** 303.5 °C**Boiling Point:** 1457±10°C**Vapor Pressure:** 1 x 10⁰⁰ mm Hg at 825°C**Specific Gravity:** 11.85 [UT]**Solubility:** insoluble**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

11

01

01

01

03

01

03

Possible SW-846 Analytical Methods
Method **EQL(µg/L)**

6010 NA

6020 NA

7840 NA

7841 NA

Tl

Tin**CAS Name:** Tin**CAS Number:** 7440-31-5**Empirical Formula:** Sn**MCL:** NA**Molecular Weight:** 118.69 $\pm$ 3 g/mol**Melting Point:** 231.9 °C**Boiling Point:** 2260-2270°C**Vapor Pressure:** 1 x 10⁰⁰ mm Hg at 1492°C**Specific Gravity:** 5.75 - 7.28**Solubility:** insoluble**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

01

02

01

03

01

03

Possible SW-846 Analytical Methods
Method **EQL(μ g/L)**

7870

NA

Sn

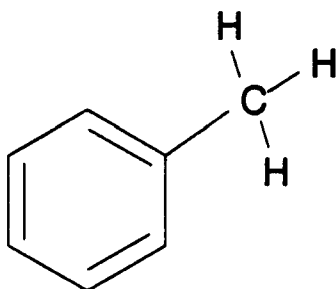
Toluene

CAS Name: Benzene, methyl-

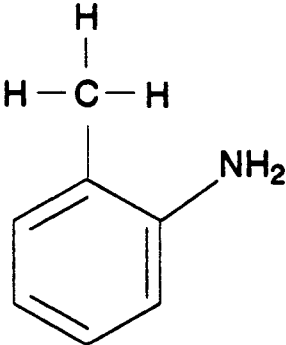
CAS Number:	108-88-3	REF
Empirical Formula:	C ₇ H ₈	
MCL:	1 mg/L	08
Molecular Weight:	92.14 g/mol	01
Melting Point:	-95 °C	01
Boiling Point:	110.6 °C	01
Vapor Pressure:	2.8 x 10 ⁰¹ mm Hg at 25°C	03
Specific Gravity:	0.8669 at 20/4°C	01
Solubility:	5.15 x 10 ⁰² mg/L at 20°C	03
Henry's Law Constant:	5.92 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	03
Log K_{ow}:	2.69	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8020	2.0
8021	0.1
8240	5
8260	5



o-Toluidine

CAS Name: Benzenamine, 2-methyl-		
CAS Number:	95-53-4	REF
Empirical Formula:	C ₇ H ₉ N	
MCL:	NA	
Molecular Weight:	107.16 g/mol	
Melting Point:	-14.7 °C	
Boiling Point:	200.2 °C	
Vapor Pressure:	1 x 10 ⁻⁰¹ mm Hg at 20°C	
Specific Gravity:	0.9984 at 20/4°C	
Solubility:	1.5 x 10 ⁰⁴ mg/L at 25°C	
Henry's Law Constant:	1.88 x 10 ⁻⁰⁶ atm • m ³ /mol at 25°C	04
Log K_{ow}:	1.29, 1.32	04
Possible SW-846 Analytical Methods		
Method	EQL (µg/L)	
8270	10	
		

Toxaphene**CAS Name:** Toxaphene**CAS Number:** 8001-35-2**Empirical Formula:** $C_{10}H_{10}Cl_8$ (approx.)**MCL:** 0.003 mg/L**Molecular Weight:** 413.82 g/mol**Melting Point:** 65-90 °C**Boiling Point:** decomposes above 120°C**Vapor Pressure:** 2×10^{-01} - 4×10^{-01} mm Hg at 25°C**Specific Gravity:** 1.6 at 20/4°C**Solubility:** 5×10^{-01} - 3×10^{00} mg/L at 25°C**Henry's Law Constant:** 4.89×10^{-03} atm • m³/mol at 25°C**Log K_{ow}:** 3.3**REF**

08

04

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04

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04

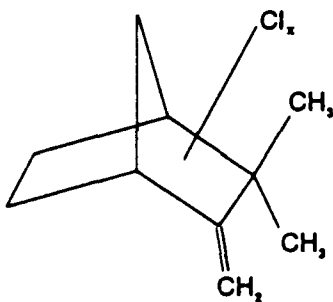
03

03

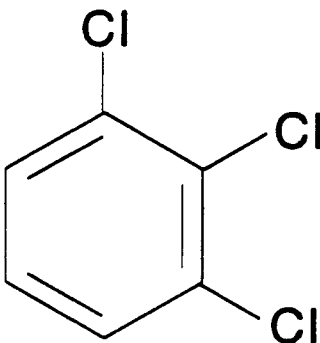
03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8080	2.40
8081	0.86
8250	NA
8270	NA



1,2,3-Trichlorobenzene *

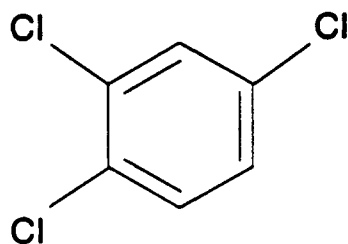
CAS Name: Benzene, 1,2,3-trichloro-		
CAS Number:	87-61-6	REF
Empirical Formula:	C ₆ H ₃ Cl ₃	
MCL:	NA	
Molecular Weight:	181.45 g/mol	
Melting Point:	53-54 °C	
Boiling Point:	218-219 °C	
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 40°C	
Specific Gravity:	1.69 [UT]	01
Solubility:	1.2 x 10 ⁰¹ mg/L at 22°C	01
Henry's Law Constant:	8.9 x 10 ⁻⁰³ atm • m ³ /mol at 20°C	01
Log K_{ow}:	4.14	03
Possible SW-846 Analytical Methods		
Method	EQL(μg/L)	
8021	0.3	
8260	5	

1,2,4-Trichlorobenzene**CAS Name:** Benzene, 1,2,4-trichloro-

CAS Number:	120-82-1	REF
Empirical Formula:	C ₆ H ₃ Cl ₃	
MCL:	0.07 mg/L	11
Molecular Weight:	181.45 g/mol	01
Melting Point:	17°C	01
Boiling Point:	213.5 °C	01
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 38.4°C	03
Specific Gravity:	1.4542 at 20/4°C	01
Solubility:	1.9 x 10 ⁰¹ mg/L at 22°C	03
Henry's Law Constant:	1.42 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	03
Log K_{ow}:	3.98	03

Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
8021	0.2/0.3
8120	0.5
8121	1.3
8250	19
8260	5
8270	10

8021	0.2/0.3
8120	0.5
8121	1.3
8250	19
8260	5
8270	10

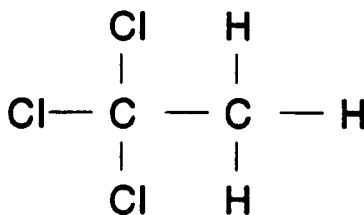


1,1,1-Trichloroethane; Methylchloroform**CAS Name:** Ethane, 1,1,1-trichloro-

CAS Number:	71-55-6	REF
Empirical Formula:	$C_2H_3Cl_3$	
MCL:	0.2 mg/L	08
Molecular Weight:	133.40 g/mol	01
Melting Point:	-30.4 °C	01
Boiling Point:	74.1 °C	01
Vapor Pressure:	1.00×10^{02} mm Hg at 20°C	03
Specific Gravity:	1.3390 at 20/4°C	01
Solubility:	4.4×10^{03} mg/L at 20°C	03
Henry's Law Constant:	4.08×10^{-03} atm • m ³ /mol at 25°C	03
Log K_{ow}:	2.47	03

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8010	0.3
8021	0.3
8240	5
8260	5

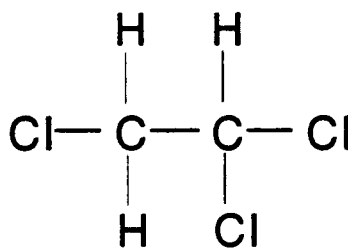


1,1,2-Trichloroethane**CAS Name:** Ethane, 1,1,2-trichloro-

CAS Number:	79-00-5	REF
Empirical Formula:	C ₂ H ₃ Cl ₃	
MCL:	0.005 mg/L	11
Molecular Weight:	133.40 g/mol	01
Melting Point:	-36.5 °C	01
Boiling Point:	113.8 °C	01
Vapor Pressure:	2.5 x 10 ⁰¹ mm Hg at 25°C	03
Specific Gravity:	1.4397 at 20/4°C	01
Solubility:	4.5 x 10 ⁰³ mg/L at 20°C	03
Henry's Law Constant:	9.607 x 10 ⁻⁰⁴ atm • m ³ /mol at 25°C	06
Log K_{ow}:	2.17	03

Possible SW-846 Analytical Methods	
Method	EQL(μg/L)
8010	0.2
8021	NA
8240	5
8260	5

8010	0.2
8021	NA
8240	5
8260	5



Trichloroethylene; Trichloroethene

CAS Name: Ethene, trichloro-		
CAS Number:	79-01-6	REF
Empirical Formula:	C ₂ HCl ₃	
MCL:	0.005 mg/L	08
Molecular Weight:	131.39 g/mol	01
Melting Point:	-73 °C	01
Boiling Point:	87°C	01
Vapor Pressure:	7.7 x 10 ⁰¹ mm Hg at 25°C	03
Specific Gravity:	1.4642 at 20/4°C	01
Solubility:	1.1 x 10 ⁰³ mg/L at 25°C	03
Henry's Law Constant:	1.17 x 10 ⁻⁰² atm • m ³ /mol at 25°C	03
Log K_{ow}:	2.53	03
Possible SW-846 Analytical Methods		
Method	EQL(μg/L)	
8010	1.2	
8021	0.2/0.1	
8240	5	
8260	5	

Trichlorofluoromethane; CFC-11**CAS Name:** Methane, trichlorofluoro-**CAS Number:** 75-69-4**REF****Empirical Formula:** CCl₃F**MCL:** NA**Molecular Weight:** 137.38 g/mol

02

Melting Point: -111°C

02

Boiling Point: 23.7°C

02

Vapor Pressure: 6.87 x 10⁻⁰² mm Hg at 20°C

03

Specific Gravity: 1.494 at 17.2/4°C

02

Solubility: 1.1 x 10⁻⁰³ mg/L at 25°C

03

Henry's Law Constant: 5.83 x 10⁻⁰² atm • m³/mol at 25°C

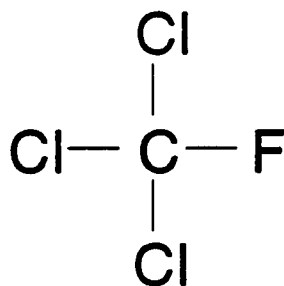
03

Log K_{ow}: 2.53

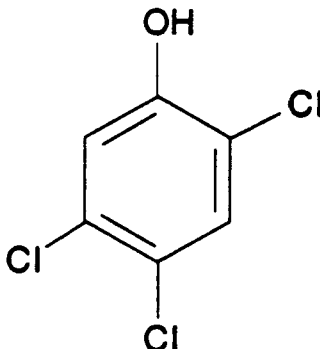
03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8010	NA
8021	0.3
8240	NA
8260	5



2,4,5-Trichlorophenol

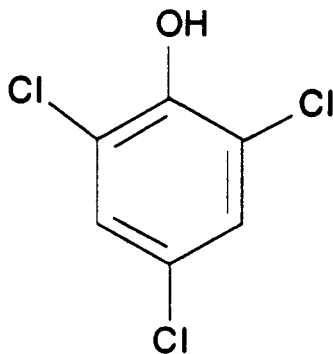
CAS Name: Phenol, 2,4,5-trichloro-			
CAS Number:	95-95-4	REF	
Empirical Formula:	C ₆ H ₃ Cl ₃ O		
MCL:	NA		
Molecular Weight:	197.45 g/mol		01
Melting Point:	68-70°C		01
Boiling Point:	Sublimes		01
Vapor Pressure:	4.00 x 10 ⁰² mm Hg at 225°C		03
Specific Gravity:	1.678 at 25/4°C		04
Solubility:	1.19 x 10 ⁰³ mg/L at 25°C		03
Henry's Law Constant:	1.76 x 10 ⁻⁰⁷ atm • m ³ /mol at 25°C	04	
Log K_{ow}:	3.72	03	
Possible SW-846 Analytical Methods			
Method	EQL(μg/L)		
8250	NA		
8270	10		

2,4,6-Trichlorophenol**CAS Name:** Phenol, 2,4,6-trichloro-

CAS Number:	88-06-2	REF
Empirical Formula:	C ₆ H ₃ Cl ₃ O	
MCL:	NA	
Molecular Weight:	197.45 g/mol	01
Melting Point:	69.5°C	01
Boiling Point:	246 °C	01
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 76.5°C	03
Specific Gravity:	1.4901 at 75/4°C	01
Solubility:	8 x 10 ⁰² mg/L at 25°C	03
Henry's Law Constant:	4 x 10 ⁻⁰⁶ atm • m ³ /mol at 25°C	03
Log K_{ow}:	3.69	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
8040	6.4
8250	27
8270	10



1,2,3-Trichloropropane

CAS Name: Propane, 1,2,3-Trichloro-		
CAS Number:	96-18-4	REF
Empirical Formula:	C ₃ H ₅ Cl ₃	
MCL:	NA	
Molecular Weight:	147.43 g/mol	
Melting Point:	-14.7 °C	
Boiling Point:	156.8 °C	
Vapor Pressure:	2 x 10 ⁰⁰ mm Hg at 20°C	
Specific Gravity:	1.3889 at 20/4°C	
Solubility:	insoluble	
Henry's Law Constant:	3.393 x 10 ⁻⁰⁴ atm • m ³ /mol at 25°C	06
Log K_{ow}:	NA	
Possible SW-846 Analytical Methods		$ \begin{array}{ccccc} & \text{H} & & \text{H} & & \text{H} \\ & & & & & \\ \text{Cl} & - \text{C} & - & \text{C} & - & \text{C} & - \text{Cl} \\ & & & & & \\ & \text{H} & & \text{Cl} & & \text{H} \end{array} $
Method	EQL (µg/L)	
8240	5	
8260	5	

O,O,O-Triethyl phosphorothioate ****CAS Name:** Phosphorothioic acid, O,O,O-triethyl ester**CAS Number:** 126-68-1**REF****Empirical Formula:** C₆H₁₅O₃PS**MCL:** NA**Molecular Weight:** 198.22 g/mol

03

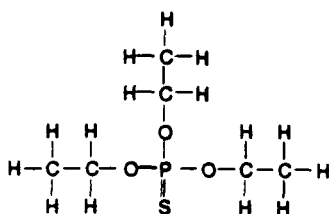
Melting Point: NA**Boiling Point:** 62°C

03

Vapor Pressure: NA**Specific Gravity:** NA**Solubility:** NA**Henry's Law Constant:** NA**Log K_{ow}:** NA**Possible SW-846 Analytical Methods****Method****EQL(μg/L)**

8270

NA



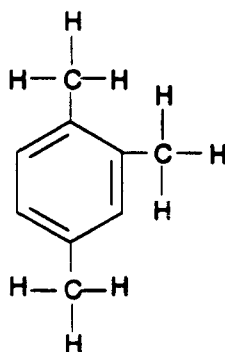
1,2,4-Trimethylbenzene ***CAS Name:** Benzene, 1,2,4-trimethyl-

CAS Number:	95-63-6	REF
Empirical Formula:	C ₉ H ₁₂	
MCL:	NA	
Molecular Weight:	120.19 g/mol	01
Melting Point:	-43.8 °C	01
Boiling Point:	169.3 °C	01
Vapor Pressure:	1 x 10 ⁰⁰ mm Hg at 13.6°C	03
Specific Gravity:	0.8758 at 20/4°C	01
Solubility:	5.7 x 10 ⁰¹ mg/L at 20°C	03
Henry's Law Constant:	5.633 x 10 ⁻⁰³ atm • m ³ /mol at 25°C	06
Log K_{ow}:	3.63	03

Possible SW-846 Analytical Methods

Method	EQL(μg/L)
--------	-----------

8021	0.5
8260	5



1,3,5-Trimethylbenzene ***CAS Name:** Benzene, 1,3,5-trimethyl-**CAS Number:** 108-67-8**REF****Empirical Formula:** C₉H₁₂**MCL:** NA**Molecular Weight:** 120.19 g/mol

01

Melting Point: -44.7 °C

01

Boiling Point: 164.7 °C

01

Vapor Pressure: 1 x 10⁰⁰ mm Hg at 9.6°C

03

Specific Gravity: 0.8652 at 20/4°C

01

Solubility: 2 x 10⁰¹ mg/L [UT]

03

Henry's Law Constant: NA**Log K_{ow}:** 3.42

03

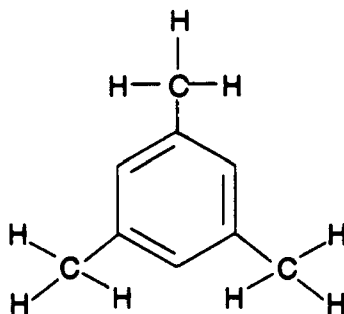
Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8021

0.04

8260

5

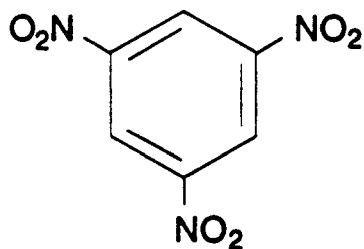


sym-Trinitrobenzene ****CAS Name:** Benzene, 1,3,5-trinitro-

CAS Number:	99-35-4	REF
Empirical Formula:	C ₆ H ₃ N ₃ O ₆	
MCL:	NA	
Molecular Weight:	213.11 g/mol	01
Melting Point:	121-122 °C	01
Boiling Point:	315°C	01
Vapor Pressure:	NA	
Specific Gravity:	1.76 at 20/4°C	02
Solubility:	3.5 x 10 ⁰² mg/Kg [UT]	02
Henry's Law Constant:	NA	
Log K_{ow}:	NA	

Possible SW-846 Analytical Methods

Method	EQL(µg/L)
8270	10
8330	7.3



Vanadium**CAS Name:** Vanadium**CAS Number:** 7440-62-2**Empirical Formula:** V**MCL:** NA**Molecular Weight:** 50.9415 g/mol**Melting Point:** 1890±10°C**Boiling Point:** 3380°C**Vapor Pressure:** NA**Specific Gravity:** 5.96 [UT]**Solubility:** insoluble**Henry's Law Constant:** NA**Log K_{ow}:** NA**REF**

01

01

01

01

03

Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

6010

NA

7910

NA

7911

NA

V

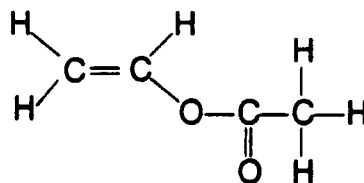
Vinyl acetate

CAS Name: Acetic acid, ethenyl ester

CAS Number:	108-05-4	REF
Empirical Formula:	C ₄ H ₆ O ₂	
MCL:	NA	
Molecular Weight:	86.09 g/mol	01
Melting Point:	-93.2 °C	01
Boiling Point:	72.2°C	01
Vapor Pressure:	1.00 x 10 ⁰² mm Hg at 23.3°C	03
Specific Gravity:	0.9317 at 20/4°C	01
Solubility:	2 x 10 ⁰⁴ mg/L [UT]	03
Henry's Law Constant:	4.81 x 10 ⁻⁰⁴ atm • m ³ /mol [UT]	04
Log K_{ow}:	0.73	04

Possible SW-846 Analytical Methods

Method	EQL (µg/L)
8240	50



Vinyl chloride; Chloroethene**CAS Name:** Ethene, chloro-**CAS Number:** 75-01-4**REF****Empirical Formula:** C₂H₃Cl**MCL:** 0.002 mg/L

08

Molecular Weight: 62.50 g/mol

01

Melting Point: -153.8°C

02

Boiling Point: -13.4 °C

01

Vapor Pressure: 2.580 x 10⁰³ mm Hg at 20°C

03

Specific Gravity: 0.9106 at 20/4°C

01

Solubility: 1.1 x 10⁰³ mg/L at 25°C

04

Henry's Law Constant: 2.78 x 10⁻⁰² atm • m³/mol at 25°C

03

Log K_{ow}: 0.60

03

Possible SW-846 Analytical Methods**Method****EQL(μg/L)**

8010

1.8

8021

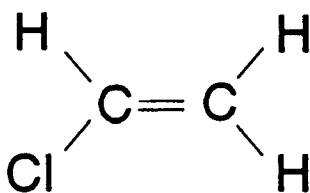
0.2/0.4

8240

10

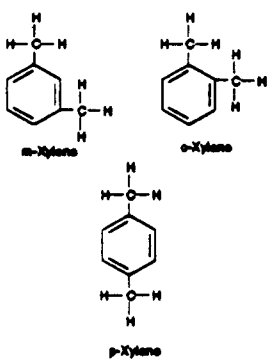
8260

5



Xylenes

CAS Name: Benzene, dimethyl-		
CAS Number:	1330-20-7	REF
Empirical Formula:	C ₈ H ₁₀	
MCL:	10 mg/L	08
Molecular Weight:	106.17 g/mol	01
Melting Point:	-47.9 - 13.3°C	01
Boiling Point:	138.3 - 144.4°C	01
Vapor Pressure:	1.0 x 10 ⁰¹ mm Hg at 27.3 - 32.1°C	01
Specific Gravity:	0.86104 - 0.8801 at 20/4°C	02
Solubility:	insoluble	02
Henry's Law Constant:	4.184 x 10 ⁻⁰⁸ - 6.662 x 10 ⁻⁰⁸ atm • m ³ /mol at 25°C	06
Log K_{ow}:	2.77 - 3.20	03

Possible SW-846 Analytical Methods		
Method	EQL(μg/L)	
8240	5	 m-Xylene o-Xylene p-Xylene
8260	5	

Zinc**CAS Name:** Zinc**CAS Number:** 7440-66-6**Empirical Formula:** Zn**MCL:** NA**Molecular Weight:** 65.38 g/mol**Melting Point:** 419.58°C**Boiling Point:** 907 °C**Vapor Pressure:** 1×10^{00} mm Hg at 487°C**Specific Gravity:** 7.14 [UT]**Solubility:** insoluble**Henry's Law Constant:** NA**Log K_{ow} :** NA**REF**

01

01

01

03

01

03

Possible SW-846 Analytical Methods**Method****EQL(μ g/L)**

6010

NA

6020

NA

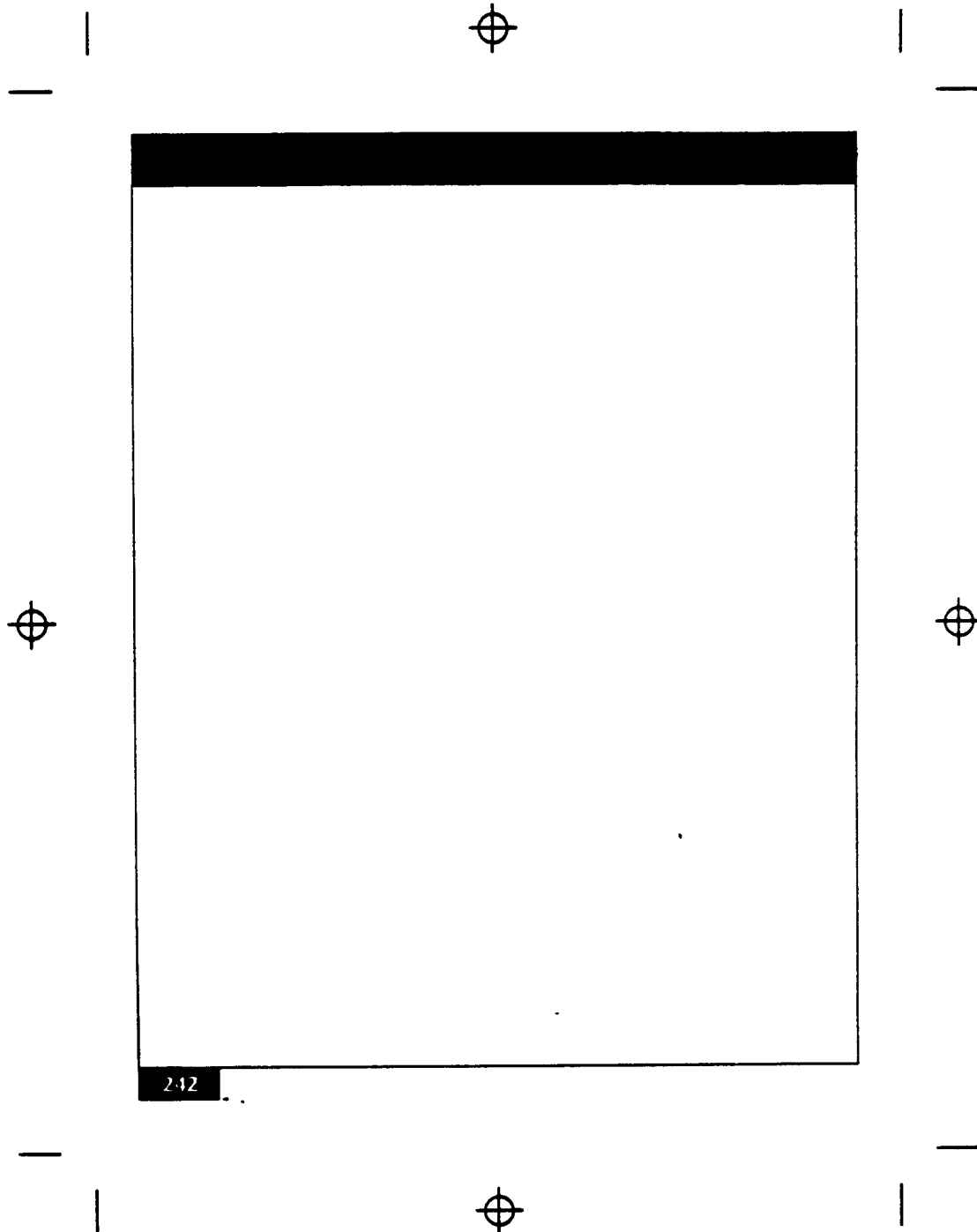
7950

NA

7951

NA

Zn



242

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| 06 | Yaws, Carl, Haur-Chung Yang, and Xiang Pan. November 1991. "Henry's Law Constants for 362 Organic Compounds in Water". Chemical Engineering, Vol. 98, No. 11. pp. 179-185. |
| 07 | <u>Federal Register</u> , June 7, 1991, Volume 56, Number 110, p. 26460. |
| 08 | <u>Federal Register</u> , January 30, 1991, Volume 56, Number 20, p. 3526. |
| 09 | <u>Federal Register</u> , July 1, 1991, Volume 56, Number 126, p. 30266. |
| 10 | <u>Code of Federal Regulations</u> , Title 40, Sections 141.11 and 141.12. 1991. |
| 11 | <u>Federal Register</u> , July 17, 1992, Volume 57, Number 138, p. 31776. |

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- 14 Howard, Philip H., ed. 1991. Handbook of Environmental Fate and Exposure Data. Volume III. Lewis Publishers, Chelsea, Michigan, 684 pp.
- 15 USEPA. October 1986. Superfund Public Health Evaluation Manual. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Office of Solid Waste and Emergency Response, Washington, D.C., EPA/540/1-86/060, 175 pp.

Index of Appendix IX Constituents by CAS No.

CAS No.	Appendix IX Name
50-29-3	4,4'-DDT
50-32-8	Benzo(a)pyrene
51-28-5	2,4-Dinitrophenol
52-85-7	Famphur
53-70-3	Dibenz(a,h)anthracene
53-96-3	2-Acetylaminofluorene; 2-AAF
55-18-5	N-Nitrosodiethylamine **
56-23-5	Carbon tetrachloride
56-38-2	Parathion
56-49-5	3-Methylcholanthrene
56-55-3	Benzo[a]anthracene; Benzanthracene
56-57-5	4-Nitroquinoline-1-oxide **
57-12-5	Cyanide
57-74-9	Chlordane
57-97-6	7,12-Dimethylbenz[a]anthracene
58-89-9	gamma-BHC; Lindane
58-90-2	2,3,4,6-Tetrachlorophenol
59-50-7	p-Chloro-m-cresol; 4-Chloro-3-methylphenol
59-89-2	N-Nitrosomorpholine **
60-11-7	p-(Dimethylamino)azobenzene
60-51-5	Dimethoate
60-57-1	Dieldrin
62-44-2	Phenacetin

Index of Appendix IX Constituents by CAS No.

CAS No.	Appendix IX Name
62-50-0	Ethyl methanesulfonate
62-53-3	Aniline; Benzenamine **
62-75-0	N-Nitrosodimethylamine **
66-27-3	Methyl methanesulfonate
67-64-1	Acetone
67-66-3	Chloroform; Trichloromethane
67-72-1	Hexachloroethane
70-30-4	Hexachlorophene **
71-43-2	Benzene
71-55-6	1,1,1-Trichloroethane; Methylchloroform
72-20-8	Endrin
72-43-5	Methoxychlor
72-54-8	4,4'-DDD
72-55-0	4,4'-DDE
74-83-0	Methyl bromide; Bromomethane
74-87-3	Methyl Chloride; Chloromethane
74-88-4	Methyl iodide; Iodomethane
74-85-3	Methylene bromide; Dibromomethane
74-97-5	Bromochloromethane; Chlorobromomethane *
75-00-3	Chloroethane; Ethyl chloride
75-01-4	Vinyl chloride; Chloroethene
75-05-8	Acetonitrile; Methyl cyanide
75-09-2	Methylene Chloride; Dichloromethane

Index of Appendix IX Constituents by CAS No.

CAS No.	Appendix IX Name
75-15-0	Carbon disulfide
75-25-2	Bromoform; Tribromomethane
75-27-4	Bromodichloromethane; Dichlorobromomethane
75-34-3	1,1-Dichloroethane; Ethylidene chloride
75-35-4	1,1-Dichloroethylene; Vinylidene chloride
75-69-4	Trichlorofluoromethane; CFC-11
75-71-8	Dichlorodifluoromethane; CFC-12
76-01-7	Pentachloroethane **
76-44-8	Heptachlor
77-47-4	Hexachlorocyclopentadiene
78-59-1	Isophorone
78-83-1	Isobutyl alcohol **
78-87-5	1,2-Dichloropropane; Propylene dichloride
78-93-3	Methyl ethyl ketone; MEK; 2-Butanone
79-00-5	1,1,2-Trichloroethane
79-01-6	Trichloroethylene; Trichloroethene
79-34-5	1,1,2,2-Tetrachloroethane
80-62-6	Methyl methacrylate
82-68-8	Pentachloronitrobenzene
83-32-9	Acenaphthene
84-66-2	Diethyl phthalate
84-74-2	Di-n-butyl phthalate
85-01-8	Phenanthrene

Index of Appendix IX Constituents by CAS No.

CAS No.	Appendix IX Name
85-68-7	Butyl benzyl phthalate; Benzyl butyl phthalate
86-30-6	N-Nitrosodiphenylamine **
86-73-7	Fluorene
87-61-6	1,2,3-Trichlorobenzene *
87-65-0	2,6-Dichlorophenol
87-68-3	Hexachlorobutadiene
87-86-5	Pentachlorophenol
88-06-2	2,4,6-Trichlorophenol
88-74-4	o-Nitroaniline; 2-Nitroaniline **
88-75-5	o-Nitrophenol; 2-Nitrophenol
88-85-7	Dinoseb; DNBP; 2-sec-Butyl-4,6-Dinitrophenol
91-20-3	Naphthalene
91-57-6	2-Methylnaphthalene
91-58-7	2-Chloronaphthalene
91-59-8	2-Naphthylamine
91-80-5	Methapyrilene **
91-94-1	3,3'-Dichlorobenzidine
92-87-1	4-Aminobiphenyl
93-72-1	Silvex; 2,4,5-TP
93-76-5	2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid
94-59-7	Safrole
94-75-7	2,4-D; 2,4-Dichlorophenoxyacetic acid
95-48-7	o-Cresol; 2-Methylphenol

Index of Appendix IX Constituents by CAS No.

CAS No.	Appendix IX Name
95-49-8	2-Chlorotoluene *
95-50-1	o-Dichlorobenzene; 1,2-Dichlorobenzene
95-53-4	o-Toluidine
95-57-8	2-Chlorophenol
95-63-6	1,2,4-Trimethylbenzene *
95-94-3	1,2,4,5-Tetrachlorobenzene
95-95-4	2,4,5-Trichlorophenol
96-12-8	1,2-Dibromo-3-chloropropane; DBCP
96-18-4	1,2,3-Trichloropropane
97-63-2	Ethyl methacrylate
98-06-6	tert-Butylbenzene *
100-01-6	p-Nitroaniline; 4-Nitroaniline **
100-02-7	p-Nitrophenol; 4-Nitrophenol
100-41-4	Ethylbenzene
100-42-5	Styrene
100-51-6	Benzyl alcohol
100-75-4	N-Nitrosopiperidine **
101-55-3	4-Bromophenyl phenyl ether
103-65-1	n-Propylbenzene *
104-51-8	n-Butylbenzene *
105-67-9	2,4-Dimethylphenol; m-Xylenol
106-43-4	4-Chlorotoluene *
106-44-5	p-Cresol; 4-Methylphenol

Index of Appendix IX Constituents by CAS No.

CAS No.	Appendix IX Name
106-46-7	p-Dichlorobenzene; 1,4-Dichlorobenzene
106-47-8	p-Chloroaniline **
106-50-3	p-Phenylenediamine **
106-93-4	1,2-Dibromoethane; Ethylene dibromide; EDB
107-02-8	Acrolein **
107-05-1	Allyl chloride
107-06-2	1,2-Dichloroethane; Ethylene dichloride
107-12-0	Propionitrile; Ethyl cyanide
107-13-1	Acrylonitrile
108-05-4	Vinyl acetate
108-10-1	4-Methyl-2-pentanone; Methyl isobutyl ketone
108-39-4	m-Cresol; 3-Methylphenol
108-60-1	Bis(2-chloro-1-methylethyl)ether
108-67-8	1,3,5-Trimethylbenzene *
108-86-1	Bromobenzene *
108-88-3	Toluene
108-90-7	Chlorobenzene
108-95-2	Phenol
109-06-8	2-Picoline **
110-57-6	trans-1,4-Dichloro-2-butene
110-86-1	Pyridine **
111-44-4	Bis(2-chloroethyl)ether; Dichloroethylether
111-91-1	Bis(2-chloroethoxy)methane

Index of Appendix IX Constituents by CAS No.

CAS No.	Appendix IX Name
117-81-7	Bis(2-ethylhexyl)phthalate
117-84-0	Di-n-octyl phthalate
118-74-1	Hexachlorobenzene
119-93-7	3,3'-Dimethylbenzidine
120-12-7	Anthracene
120-58-1	Isosafrole **
120-82-1	1,2,4-Trichlorobenzene
120-83-2	2,4-Dichlorophenol
121-14-2	2,4-Dinitrotoluene
122-09-8	alpha, alpha-Dimethylphenethylamine **
122-39-4	Diphenylamine
123-91-1	1,4-Dioxane **
124-48-1	Dibromochloromethane; Chlorodibromomethane
126-68-1	O,O,O-Triethyl phosphorothioate **
126-98-7	Methacrylonitrile
126-99-8	Chloroprene; 2-Chloro-1,3-butadiene **
127-18-4	Tetrachloroethylene; Perchloroethylene
129-00-0	Pyrene
130-15-4	1,4-Naphthoquinone
131-11-3	Dimethyl phthalate
132-64-9	Dibenzofuran
134-32-7	1-Naphthylamine **
135-98-8	sec-Butylbenzene *

Index of Appendix IX Constituents by CAS No.

CAS No.	Appendix IX Name
140-57-8	Aramite **
142-28-9	1,3-Dichloropropane; Trimethyl dichloride *
143-50-0	Kepone
156-59-2	cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene *
156-60-5	trans-1,2-Dichloroethylene
191-24-2	Benzo[ghi]perylene
193-39-5	Indeno(1,2,3-cd)pyrene
205-99-2	Benzo(b)fluoranthene
206-44-0	Fluoranthene
207-08-9	Benzo(k)fluoranthene
208-96-8	Acenaphthylene
218-01-9	Chrysene
297-97-2	O,O-Diethyl O-2-pyrazinyl phosphorothioate **
298-00-0	Methyl parathion; Parathion methyl
298-02-2	Phorate
298-04-4	Disulfoton
308-00-2	Aldrin
319-84-6	alpha-BHC
319-85-7	beta-BHC
319-86-8	delta-BHC
465-73-6	Isodrin
510-15-6	Chlorobenzilate
534-52-1	4,6-Dinitro-o-cresol; 4,6-Dinitro-2 methylphenol

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CAS No.	Appendix IX Name
541-73-1	m-Dichlorobenzene; 1,3-Dichlorobenzene
563-58-6	1,1-Dichloropropene *
591-78-6	2-Hexanone; Methyl butyl ketone
594-20-7	2,2-Dichloropropane; Isopropylidene chloride *
606-20-2	2,6-Dinitrotoluene
608-93-5	Pentachlorobenzene
621-64-7	N-Nitrosodipropylamine **
628-34-2	2-Chloroethyl ethyl ether *
630-20-6	1,1,1,2-Tetrachloroethane
924-16-3	N-Nitrosodi-n-butylamine **
930-55-2	N-Nitrosopyrrolidine **
959-98-8	Endosulfan I
1024-57-3	Heptachlor epoxide
1031-07-8	Endosulfan sulfate
1330-20-7	Xylenes
1335-36-3	Polychlorinated biphenyls; PCBs; Aroclors
1634-04-4	Methyl tert-butyl ether *
1746-01-6	2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo-p-dioxin
1888-71-7	Hexachloropropene
2303-16-4	Diallate
3689-24-5	Tetraethyl dithiopyrophosphate **
7005-72-3	4-Chlorophenyl phenyl ether
7421-93-4	Endrin aldehyde

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CAS No.	Appendix IX Name
7439-92-1	Lead
7439-97-6	Mercury
7440-02-0	Nickel
7440-22-4	Silver
7440-28-0	Thallium
7440-31-5	Tin
7440-36-0	Antimony
7440-38-2	Arsenic
7440-39-3	Barium
7440-41-7	Beryllium
7440-43-9	Cadmium
7440-47-3	Chromium
7440-48-4	Cobalt
7440-50-8	Copper
7440-62-1	Vanadium
7440-66-6	Zinc
7782-49-2	Selenium
8001-35-2	Toxaphene
10061-01-5	cis-1,3-Dichloropropene
10061-02-6	trans-1,3-Dichloropropene
10595-85-6	N-Nitrosomethylethylamine **
18498-25-8	Sulfide
23950-58-5	Pronamide

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CAS No.	Appendix IX Name
33213-65-9	Endosulfan II

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CAS Name	Appendix IX Name
Acenaphthylene	Acenaphthylene
Acenaphthylene, 1,2-dihydro-	Acenaphthene
Acetamide, N-(4-ethoxyphenyl)	Phenacetin
Acetamide, N-9H-fluoren-2-yl-	2-Acetylaminofluorene; 2-AAF
Acetic acid, (2,4-dichlorophenoxy)-	2,4-D; 2,4-Dichlorophenoxyacetic acid
Acetic acid, (2,4,5-trichlorophenoxy)-	2,4,5-Trichlorophenoxyacetic acid
Acetic acid, ethenyl ester	Vinyl acetate
Acetonitrile	Acetonitrile; Methyl cyanide
Anthracene	Anthracene
Antimony	Antimony
Arsenic	Arsenic
Barium	Barium
Benz[a]anthracene	Benzo[a]anthracene; Benzanthracene
Benz[a]anthracene, 7,12-	7,12-Dimethylbenz[a]anthracene
Benz[e]acphenanthrylene	Benzo(b)fluoranthene
Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-	3-Methylcholanthrene
Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-	Pronamide
Benzenamine	Aniline; Benzenamine **
Benzenamine, 2-methyl-	o-Toluidine
Benzenamine, 2-methyl-5-nitro-	5-Nitro-o-toluidine
Benzenamine, 2-nitro-	o-Nitroaniline; 2-Nitroaniline **
Benzenamine, 3-nitro-	m-Nitroaniline; 3-Nitroaniline **
Benzenamine, 4-chloro-	p-Chloroaniline **

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CAS Name	Appendix IX Name
Benzenamine, 4-nitro-	p-Nitroaniline; 4-Nitroaniline **
Benzenamine, N,N-dimethyl-4-(phenylazo)-	p-(Dimethylamino)azobenzene
Benzenamine, N-nitroso-N-phenyl-	N-Nitrosodiphenylamine **
Benzenamine, N-phenyl-	Diphenylamine
Benzene	Benzene
Benzene, 1-bromo-4-phenoxy-	4-Bromophenyl phenyl ether
Benzene, 1-chloro-2-methyl-	2-Chlorotoluene *
Benzene, 1-chloro-4-methyl-	4-Chlorotoluene *
Benzene, 1-chloro-4-phenoxy-	4-Chlorophenyl phenyl ether
Benzene, 1-methyl-2,4-dinitro-	2,4-Dinitrotoluene
Benzene, 1-methyl-4-(1-methylethyl)-	p-Isopropyltoluene *
Benzene, (1-methylethyl)-	Isopropylbenzene *
Benzene, (1-methylpropyl)-	sec-Butylbenzene *
Benzene], 1,1'-(2,2-dichloroethyldene)bis[4-chloro-	4,4'-DDD
Benzene], 1,1'-(2,2,2-trichloroethyldene)bis[4-methoxy-	Methoxychlor
Benzene], 1,1'-(2,2,2-trichloroethyldene)	4,4'-DDT
Benzene], 1,1'-(dichloroethyldene)bis[4-chloro-	4,4'-DDE
Benzene, (1,1-dimethylethyl)-	tert-Butylbenzene *
Benzene, 1,2-dichloro-	o-Dichlorobenzene; 1,2-Dichlorobenzene
Benzene, 1,2,3-trichloro-	1,2,3-Trichlorobenzene *
Benzene, 1,2,4-trichloro-	1,2,4-Trichlorobenzene
Benzene, 1,2,4-trimethyl-	1,2,4-Trimethylbenzene *
Benzene, 1,2,4,5-tetrachloro-	1,2,4,5-Tetrachlorobenzene

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CAS Name	Appendix IX Name
Benzene, 1,3-dichloro-	m-Dichlorobenzene; 1,3-Dichlorobenzene
Benzene, 1,3-dinitro-	m-Dinitrobenzene
Benzene, 1,3,5-trimethyl-	1,3,5-Trimethylbenzene *
Benzene, 1,3,5-trinitro-	sym-Trinitrobenzene **
Benzene, 1,4-dichloro-	p-Dichlorobenzene; 1,4-Dichlorobenzene
Benzene, 2-methyl-1,3-dinitro-	2,6-Dinitrotoluene
Benzene, bromo-	Bromobenzene *
Benzene, butyl-	n-Butylbenzene *
Benzene, chloro-	Chlorobenzene
Benzene, dimethyl-	Xylenes
Benzene, ethenyl-	Styrene
Benzene, ethyl-	Ethylbenzene
Benzene, hexachloro-	Hexachlorobenzene
Benzene, methyl-	Toluene
Benzene, nitro-	Nitrobenzene
Benzene, pentachloro-	Pentachlorobenzene
Benzene, pentachloronitro-	Pentachloronitrobenzene
Benzene, propyl-	n-Propylbenzene *
Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester	Chlorobenzilate
1,4-Benzenediamine	p-Phenylenediamine **
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester	Bis(2-ethylhexyl)phthalate
1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester	Butyl benzyl phthalate
1,2-Benzenedicarboxylic acid, dibutyl ester	Di-n-butyl phthalate

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CAS Name	Appendix IX Name
1,2-Benzenedicarboxylic acid, diethyl ester	Diethyl phthalate
1,2-Benzenedicarboxylic acid, dimethyl ester	Dimethyl phthalate
1,2-Benzenedicarboxylic acid, dioctyl ester	Di-n-octyl phthalate
Benzenethanamine, alpha, alpha-dimethyl	alpha, alpha-Dimethylphenethylamine **
Benzenemethanol	Benzyl alcohol
Benzo(a)pyrene	Benzo(a)pyrene
Benzo(ghi)perylene	Benzo(ghi)perylene
Benzo(k)fluoranthene	Benzo(k)fluoranthene
1,3-Benzodioxole, 5-(1-propenyl)-	Isosafrole **
1,3-Benzodioxole, 5-(2-propenyl)-	Safrole
Beryllium	Beryllium
[1,1'-Biphenyl]-4-amine	4-Aminobiphenyl
[1,1'-Biphenyl]-4,4'-diamine,3,3'-dichloro-	3,3'-Dichlorobenzidine
[1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethyl-	3,3'-Dimethylbenzidine
1,1'-Biphenyl, chloro derivatives	Polychlorinated biphenyls; PCBs; Aroclors
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	Hexachlorobutadiene
1,3-Butadiene, 2-chloro-	Chloroprene; 2-Chloro-1,3-butadiene **
1-Butanamine, N-butyl-N-nitroso-	N-Nitrosodi-n-butylamine **
2-Butanone	Methyl ethyl ketone; MEK; 2-Butanone
2-Butene, 1,4-dichloro-, (E)-	trans-1,4-Dichloro-2-butene
Cadmium	Cadmium
Carbamoithioic acid, bis(1-methylethyl)-	Diallate
Carbon disulfide	Carbon disulfide

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CAS Name	Appendix IX Name
Chromium	Chromium
Chrysene	Chrysene
Cobalt	Cobalt
Copper	Copper
Cyanide	Cyanide
Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3alpha,4beta,5alpha,6beta)-	delta-BHC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)-	gamma-BHC; Lindane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5beta,6beta)-	alpha-BHC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta,3alpha,4beta,5alpha,6beta)-	beta-BHC
2-Cyclohexan-1-one, 3,5,5-trimethyl-	Isophorone
1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	Hexachlorocyclopentadiene
Dibenz(a,h)anthracene	Dibenz(a,h)anthracene
Dibenzo(b,e)[1,4]dioxin, 2,3,7,8-tetrachloro-	2,3,7,8-TCDD
Dibenzo(b,e)[1,4]dioxin, chloro derivatives	Polychlorinated dibenzo-p-dioxins; PCDDs
Dibenzofuran	Dibenzofuran
Dibenzofuran, chloro derivatives	Polychlorinated dibenzofurans; PCDFs
2,7,3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,8,8-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1a-alpha, 2beta,2abeta,3alpha,6alpha,6abeta,7beta,7a-alpha)-	Endrin
2,7,3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,8,8-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1a-alpha, 2beta, 2a-alpha,3beta,6beta,6a-alpha,7beta,7a-alpha)-	Dieldrin
1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hemahydro-, (1 alpha,4alpha,4a beta, 5beta, 8 beta, 8a beta)-	Isodrin

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CAS Name	Appendix IX Name
1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1 α ,4 α ,4 β ,5 α ,8 α ,8 β)-	Aldrin
1,4-Dioxane	1,4-Dioxane **
Ethylamine, N-ethyl-N-nitroso-	N-Nitrosodiethylamine **
Ethylamine, N-methyl-N-nitroso-	N-Nitrosomethylethylamine **
Ethane, 1-chloro-2-ethoxy-	2-Chloroethyl ethyl ether *
Ethane, 1,1'-(methylenabis(oxy))bis(2-chloro-	Bis(2-chloroethoxy)methane
Ethane, 1,1-dichloro-	1,1-Dichloroethane; Ethylidene chloride
Ethane, 1,1,1-trichloro-	1,1,1-Trichloroethane; Methylchloroform
Ethane, 1,1,1,2-tetrachloro-	1,1,1,2-Tetrachloroethane
Ethane, 1,1,2-trichloro-	1,1,2-Trichloroethane
Ethane, 1,1,2,2-tetrachloro-	1,1,2,2-Tetrachloroethane
Ethane, 1,1'-oxybis(2-chloro-	Bis(2-chloroethyl)ether; Dichloroethylether
Ethane, 1,2-dibromo-	1,2-Dibromoethane; Ethylene dibromide; EDB
Ethane, 1,2-dichloro-	1,2-Dichloroethane; Ethylene dichloride
Ethane, chloro-	Chloroethane; Ethyl chloride
Ethane, hexachloro-	Hexachloroethane
Ethane, pentachloro-	Pentachloroethane **
1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridyl-N'-(2-thienylmethyl)-	Methapyrilene **
Ethanone, 1-phenyl-	Acetophenone
Ethene, 1,2-dichloro-, (E) -	trans-1,2-Dichloroethylene
Ethene, 1,1-dichloro-	1,1-Dichloroethylene; Vinylidene chloride
Ethene, 1,2-dichloro-, (Z)-	cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene *

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CAS Name	Appendix IX Name
Ethene, chloro-	Vinyl chloride; Chloroethene
Ethene, tetrachloro-	Tetrachloroethylene; Perchloroethylene
Ethene, trichloro-	Trichloroethylene; Trichloroethene
Fluoranthene	Fluoranthene
9H-Fluorene	Fluorene
2-Hexanone	2-Hexanone; Methyl butyl ketone
Indeno[1,2,3-cd]pyrene	Indeno(1,2,3-cd)pyrene
Lead	Lead
Mercury	Mercury
Methanamine, N-methyl-N-nitroso-	N-Nitrosodimethylamine **
Methane, bromo-	Methyl bromide; Bromomethane
Methane, bromochloro-	Bromochloromethane; Chlorobromomethane *
Methane, bromodichloro-	Bromodichloromethane; Dichlorobromomethane
Methane, chloro-	Methyl chloride; Chloromethane
Methane, dibromo-	Methylene bromide; Dibromomethane
Methane, dibromochloro-	Dibromochloromethane; Chlorodibromomethane
Methane, dichloro-	Methylene chloride; Dichloromethane
Methane, dichlorodifluoro-	Dichlorodifluoromethane; CFC-12
Methane, iodo-	Methyl iodide; Iodomethane
Methane, tetrachloro-	Carbon tetrachloride
Methane, tribromo-	Bromoform; Tribromomethane
Methane, trichloro-	Chloroform; Trichloromethane
Methane, trichlorofluoro-	Trichlorofluoromethane; CFC-11

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CAS Name	Appendix IX Name
Methanesulfonic acid, ethyl ester	Ethyl methanesulfonate
Methanesulfonic acid, methyl ester	Methyl methanesulfonate
4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	Chlordane
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	Heptachlor
6,9-Methano-2,4,3-benzodioxathiepin, -3-Oxide, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, (3alpha,5abeta, 6alpha,6alpha,8abeta)-	Endosulfan I
6,9-Methano-2,4,3-benzodioxathiepin, -3-Oxide, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, (3alpha, 5a-alpha, 6beta, 6beta, 9a-alpha)-	Endosulfan II
6,9-Methano-2,4,3-benzodioxathiepin, -3,3-dioxide, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-	Endosulfan sulfate
2,5-Methano-2H-indeno[1,2-b]oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5, 5a, 6,6a-hexahydro-(1a-alpha, 1b-beta, 2alpha, 5alpha, 5a-beta, 6beta, 6a-alpha)	Heptachlor epoxide
1,3,4-Methano-2H-cyclobuta [cd]pentalen-2-one, 1,1a,3,3a,4, 5,5,5a,5b,8-decachlorooctahydro-	Kapone
1,2,4-Methanocyclopenta[cd]pentalene-5-carboxaldehyde, 2,2a,3,3,4,7, -hexa- chlorodecahydro-, (1alpha,2beta,2abeta, 4beta, 4abeta,5beta,6abeta, 6b-beta, 7R*)-	Endrin aldehyde
Morpholine, 4-nitroso-	N-Nitrosomorpholine **
1-Naphthalenamine	1-Naphthylamine **
2-Naphthalenamine	2-Naphthylamine

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CAS Name	Appendix IX Name
Naphthalene	Naphthalene
Naphthalene, 2-chloro-	2-Chloronaphthalene
Naphthalene, 2-methyl-	2-Methylnaphthalene
1,4-Naphthalenedione	1,4-Naphthoquinone
Nickel	Nickel
2-Pentanone, 4-methyl-	4-Methyl-2-pentanone; Methyl isobutyl ketone
Phenanthrene	Phenanthrene
Phenol	Phenol
Phenol, 2-(1-methylpropyl)-4,6-dinitro-	Dinoseb; DNBP; 2-sec-Butyl-4,6-Dinitrophenol
Phenol, 2-chloro-	2-Chlorophenol
Phenol, 2-methyl-	o-Cresol; 2-Methylphenol
Phenol, 2-methyl-4,6-dinitro-	4,6-Dinitro-o-cresol; 4,6-Dinitro-2-methylphenol
Phenol, 2-nitro-	o-Nitrophenol; 2-Nitrophenol
Phenol, 2,2'-methylenebis(3,4,6-trichloro-	Trichlorophene **
Phenol, 2,3,4,6-Tetrachloro-	2,3,4,6-Tetrachlorophenol
Phenol, 2,4-dichloro-	2,4-Dichlorophenol
Phenol, 2,4-dimethyl-	2,4-Dimethylphenol; m-Xylene
Phenol, 2,4-dinitro-	2,4-Dinitrophenol
Phenol, 2,4,5-trichloro-	2,4,5-Trichlorophenol
Phenol, 2,4,6-trichloro-	2,4,6-Trichlorophenol
Phenol, 2,6-dichloro-	2,6-Dichlorophenol
Phenol, 3-methyl-	m-Cresol; 3-Methylphenol
Phenol, 4-chloro-3-methyl-	p-Chloro-m-cresol; 4-Chloro-3-methylphenol

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CAS Name	Appendix IX Name
Phenol, 4-methyl-	p-Cresol; 4-Methylphenol
Phenol, 4-nitro-	p-Nitrophenol; 4-Nitrophenol
Phenol, pentachloro-	Pentachlorophenol
Phosphorodithioic acid, O,O-diethyl-S-[2-(ethylthio)ethyl]ester	Disulfoton
Phosphorodithioic acid, O,O-diethyl-S-[(ethylthio)methyl]ester	Phorate
Phosphorodithioic acid, O,O-dimethyl-S-[2-(methylamino)-2-oxoethyl]ester	Dimethoate
Phosphorothioic acid, O-[4-[(dimethylamino) sulfonyl] phenyl]-O,O-dimethyl ester	Famphur
Phosphorothioic acid, O,O,O-triethyl ester	O,O,O-Triethyl phosphorothioate **
Phosphorothioic acid, O,O-diethyl- O-(4-nitrophenyl)ester	Parathion
Phosphorothioic acid, O,O-diethyl-O-pyrazinyl ester	O,O-Diethyl O-2-pyrazinyl phosphorothioate **
Phosphorothioic acid, O,O-dimethyl, O-(4-nitrophenyl)ester	Methyl parathion; Parathion methyl
Piperidine, 1-nitroso-	N-Nitrosopiperidine **
1-Propanamine, N-nitroso-N-propyl-	N-Nitrosodipropylamine **
Propane, 1,2-dibromo-3-chloro	1,2-Dibromo-3-chloropropane; DBCP
Propane, 1,2-dichloro-	1,2-Dichloropropane; Propylene dichloride
Propane, 1,2,3-Trichloro-	1,2,3-Trichloropropane
Propane, 1,3-dichloro-	1,3-Dichloropropane; Trimethyl dichloride *
Propane, 2-methoxy-2-methyl-	Methyl tert-butyl ether *
Propane, 2,2-dichloro-	2,2-Dichloropropane; Isopropylidene chloride *
Propane],2,2'-oxybis[1-chloro-	Bis(2-chloro-1-methylethyl)ether
Propanenitrile	Propionitrile; Ethyl cyanide
Propanoic acid, 2-(2,4,5-trichlorophenoxy)-	Silvex; 2,4,5-TP
1-Propanol, 2-methyl-	Isobutyl alcohol**

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CAS Name	Appendix IX Name
2-Propanone	Acetone
2-Propenal	Acrolein **
1-Propene, 1,1-dichloro-	1,1-Dichloropropene *
1-Propene, 1,1,2,3,3,3-hexachloro-	Hexachloropropene
1-Propene, 3-chloro-	Allyl chloride
1-Propene, (E)-1,3-dichloro-	trans-1,3-Dichloropropene
1-Propene, (Z)-1,3-dichloro-	cis-1,3-Dichloropropene
2-Propenenitrile	Acrylonitrile
2-Propenenitrile, 2-methyl-	Methacrylonitrile
2-Propenoic acid, 2-methyl-, ethyl ester	Ethyl methacrylate
2-Propenoic acid, 2-methyl-, methyl ester	Methyl methacrylate
Pyrene	Pyrene
Pyridine	Pyridine **
Pyridine, 2-methyl-	2-Picoline **
Pyrrolidine, 1-nitroso-	N-Nitrosopyrrolidine **
Quinoline, 4-nitro-, 1-oxide	4-Nitroquinoline-1-oxide **
Selenium	Selenium
Silver	Silver
Sulfide	Sulfide
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylene ester	Aramite **
Thallium	Thallium
Thiodiphosphoric acid, tetraethyl ester	Tetraethyl dithiopyrophosphate **
Tin	Tin

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CAS Name	Appendix IX Name
Toxaphene	Toxaphene
Vanadium	Vanadium
Zinc	Zinc

Evaluation Form

USEPA is interested in how worthwhile users have found the Handbook, and what changes can be made to the Handbook to make it a more valuable resource. To assist in this effort, we would appreciate your response to the following questions.

Overall, I feel the Handbook is:

- ☐ Very Useful (I'm glad I have it)
- ☐ Somewhat Useful (It's not something I really need to have, but I'll use it every now and then.)
- ☐ Not Useful (I won't ever use the Handbook.)

I. Please indicate what information contained in the Handbook you find most useful?

II. What information contained in the Handbook is of little use? Why?

III. In which of the following ways can you see yourself using the Handbook?

- ☐ Determining the fate and transport of contaminants in ground water.
- ☐ Choosing an analytical method for ground-water analysis
- ☐ Evaluating corrective actions, selecting treatment methods, or reviewing *Corrective Measures Studies*
- ☐ Evaluating the potential for LNAPLs or DNAPLs in ground water
- ☐ Modeling
- ☐ Other _____

IV. What additional items, if any, would you like to see included in the Handbook?

- ☐ Synonyms
- ☐ Dynamic and kinematic viscosities
- ☐ Degradation products
- ☐ Possible applicable treatment methods
- ☐ Solubilities for a range of reference temperatures
- ☐ SW-846 Extraction Methods
- ☐ Other _____