

ROSTER OF APPROVED PROFESSIONALS
TECHNICAL – STANDARDS ASSESSMENT FORMULA PACKAGE

EQUATION SHEET
 Edited: August 2023

NOTE: This equation sheet is not specific to any particular sitting of the examination; use of all equations and tables will not necessarily be required for completion of any one sitting of the examination. Grouping of equations is for space saving formatting only and does not necessarily represent any other connection between equations.

$$RPD = \frac{|R_1 - R_2|}{\frac{(R_1 + R_2)}{2}} \times 100$$

RPD = Relative Percent Difference

R1 = Sample 1

R2 = Sample 2

$$R_f = 1 + \frac{\rho_b}{n} K_d$$

$K_d = K_{oc}f_{oc}$

$$\lambda = \frac{0.693}{t_{1/2}}$$

$$C_s = K_d C_w$$

R_f = retardation factor (dimensionless)

ρ_b = bulk density of soil (g/cm³)

K_d = adsorption-desorption distribution coefficient (cm³/g)

n = total porosity (dimensionless)

K_{oc} = organic carbon-water partition coefficient (cm³/g)

f_{oc} = fraction of organic carbon (dimensionless)

λ = decay constant (1/s)

$t_{1/2}$ = decay (biodegradation) half-life (s)

C_w = concentration in water

C_s = concentration in soil

$$Q = -KiA$$

$$K = \frac{kog}{\mu}$$

$$v = \frac{K}{n_e} dh/dl$$

$$[C]/[C_o] = \exp(-kt)$$

Q = flux

K = hydraulic conductivity

v = linear velocity

C_o = initial concentration

K = hydraulic conductivity

k = intrinsic permeability

K = hydraulic conductivity

C = concentration at time "t"

i = hydraulic gradient

ρ = fluid density

dh/dl = gradient

k = rate constant

A = cross sectional area

g = gravitational constant

n_e = effective porosity

t = time

μ = dynamic viscosity

$$S_s = \rho g (\alpha + n\beta)$$

$$T = Kb$$

$$S = S_s b$$

$$S = \rho g b (\alpha + n\beta)$$

S_s = specific storage

Range of Values of Porosity:

ρ = fluid density

Unconsolidated deposits	n(%)
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g = gravitational constant

| Gravel | 25-40 |

α = aquifer compressibility

| Sand | 25-50 |

n = porosity

| Silt | 35-50 |

β = fluid compressibility

| Clay | 40-70 |

T = transmissivity

Bedrock

b = thickness

| Fractured basalt | 5-50 |

S = storability

| Karst limestone | 5-50 |

Densities

| Sandstone | 5-30 |

Gasoline	0.71
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| Limestone, dolomite | 0-20 |

Diesel	0.80
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| Shale | 0-10 |

Crude Oil	0.88
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| Fractured crystalline rock | 0-10 |
| Dense crystalline rock | 0-5 |

Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

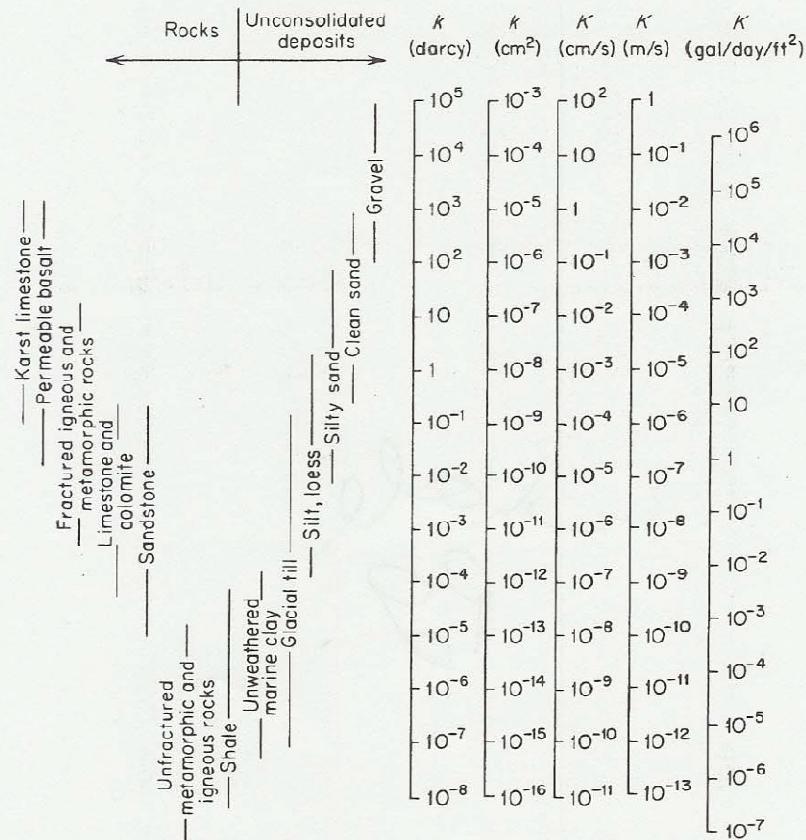


Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

	Permeability, k^*			Hydraulic conductivity, K		
	cm^2	ft^2	darcy	m/s	ft/s	gal/day/ft^2
cm^2	1	1.08×10^{-3}	1.01×10^8	9.80×10^2	3.22×10^3	1.85×10^9
ft^2	9.29×10^2	1	9.42×10^{10}	9.11×10^5	2.99×10^6	1.71×10^{12}
darcy	9.87×10^{-9}	1.06×10^{-11}	1	9.66×10^{-6}	3.17×10^{-5}	1.82×10^1
m/s	1.02×10^{-3}	1.10×10^{-6}	1.04×10^5	1	3.28	2.12×10^6
ft/s	3.11×10^{-4}	3.35×10^{-7}	3.15×10^4	3.05×10^{-1}	1	5.74×10^5
gal/day/ft^2	5.42×10^{-10}	5.83×10^{-13}	5.49×10^{-2}	4.72×10^{-7}	1.74×10^{-6}	1

*To obtain k in ft^2 , multiply k in cm^2 by 1.08×10^{-3} .

squired:

determine the water content of the soil.

solution:

Set up the following calculation scheme; fill in the "given" or measured quantities (a), (b), and (d), and make the calculations as indicated for (c), (e), and (f).

- a. Mass of total (wet) sample + dish = 462 g
- b. Mass of dry sample + dish = 364 g
- c. Mass of water ($a - b$) = 98 g
- d. Mass of dish = 39 g
- e. Mass of dry soil ($b - d$) = 325 g
- f. Water content (c/e) $\times 100\% = 30.2\%$

In the laboratory, masses are usually determined in grams (g) on an ordinary chemical balance.

Another very useful concept in geotechnical engineering is density. You know from physics that density is mass per unit volume, so its units are kg/m³. (See Appendix A for the corresponding units in the cgs and British Engineering systems.) The *density* is the ratio that connects the volumetric side of the phase diagram with the mass side. There are several commonly used densities in geotechnical engineering practice. First, we define the total, wet, or moist density ρ , the density of the particles, solid density ρ_s , and the density of water ρ_w . Or, in terms of the basic masses and volumes of Fig. 2.2:

$$\rho = \frac{M_t}{V_t} = \frac{M_s + M_w}{V_t} \quad (2-6)$$

$$\rho_s = \frac{M_s}{V_s} \quad (2-7)$$

$$\rho_w = \frac{M_w}{V_w} \quad (2-8)$$

In natural soils, the magnitude of the total density ρ will depend on how much water happens to be in the voids as well as the density of the mineral grains themselves, but ρ could range from slightly above 1000 kg/m³ to as high as 2400 kg/m³ (1.0 to 2.4 Mg/m³). Typical values of ρ_s for most soils range from 2500 to 2800 kg/m³ (2.5 to 2.8 Mg/m³). Most sands have ρ_s ranging between 2.6 and 2.7 Mg/m³. For example, a

common mineral in sands is quartz; its $\rho_s = 2.65$ Mg/m³. Most clay soils have a value of ρ_s between 2.65 and 2.80 Mg/m³, depending on the predominant mineral in the soil, whereas organic soils may have a ρ_s as low as 2.5 Mg/m³. Consequently, it is usually close enough for geotechnical work to assume a ρ_s of 2.65 or 2.70 Mg/m³ for most phase problems, unless a specific value of ρ_s is given.

The density of water varies slightly, depending on the temperature. At 4°C, when water is at its densest, ρ_w exactly equals 1000 kg/m³ (1 g/cm³), and this density is sometimes designated by the symbol ρ_o . For ordinary engineering work, it is sufficiently accurate to take $\rho_w \approx \rho_o = 1000$ kg/m³ = 1 Mg/m³.

There are three other useful densities in soils engineering. They are the dry density ρ_d , the saturated density ρ_{sat} , and the submerged or buoyant density ρ' .

$$\rho_d = \frac{M_s}{V_t} \quad (2-9)$$

$$\rho_{sat} = \frac{M_s + M_w}{V_t} (V_a = 0, S = 100\%) \quad (2-10)$$

$$\rho' = \rho_{sat} - \rho_w \quad (2-11)$$

Strictly speaking, total ρ should be used instead of ρ_{sat} in Eq. 2-11, but in most cases completely submerged soils are also completely saturated, or at least it is reasonable to assume they are saturated. The dry density ρ_d is a common basis for judging the degree of compaction of earth embankments (Chapter 5). A typical range of values of ρ_d , ρ_{sat} , and ρ' for several soil types is shown in Table 2-1.

From the basic definitions provided in this section, other useful relationships can be derived, as we show in the examples in the next section.

TABLE 2-1 Some Typical Values for Different Densities of Some Common Soil Materials*

Soil Type	Density (Mg/m ³)		
	ρ_{sat}	ρ_d	ρ'
Sands and gravels	1.9–2.4	1.5–2.3	1.0–1.3
Silts and clays	1.4–2.1	0.6–1.8	0.4–1.1
Glacial tills	2.1–2.4	1.7–2.3	1.1–1.4
Crushed rock	1.9–2.2	1.5–2.0	0.9–1.2
Peats	1.0–1.1	0.1–0.3	0.0–0.1
Organic silts and clays	1.3–1.8	0.5–1.5	0.3–0.8

*Modified after Hansbo (1975).

US EPA: Regional Screening Levels (RSLs) - Generic

Tables (November 2017)

<https://semspub.epa.gov/work/HQ/197053.pdf>

Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table November 2017

Contaminant	Analyte	Molecular Weight	Volatile Parameters						Melting Point		Density		Diffusivity in Air and Water				Partition Coefficients			Water Solubility		Tapwater Dermal Parameters						
			MW	MW Ref	H ⁺ (unitless)	HLC (atm·mole)	H and HLC Ref	VP mmHg	VP Ref	MP °C	MP Ref	Density (g/cm ³)	Density Ref	D _a (cm ² /s)	D _w (cm ² /s)	D _a and D _w Ref	K _d (L/kg)	K _d Ref	K _{oc} (L/kg)	K _{oc} Ref	log K _{ow} (unitless)	log K _{ow} Ref	S (mg/L)	S Ref	B (unitless)	T _{event} (hr/event)	t [*] (hr)	K _p (cm/hr)
Acephate		30569-19-1	1.8E-02	PHYSPROP	2.0E-11	5.0E-13	EPI	1.7E-06	PHYSPROP	1.8E+00	PHYSPROP	1.8E+00	CR289	3.7E-02	8.0E-06	WATER9 (U.S. EPA, 2001)	1.0E-01	EPI	4.8E-01	PHYSPROP	1.5E-03	2.2E-01	5.3E-01	5.1E-02	4.0E-05	EPI		
Acetaldehyde		75-07-0	4.4E-01	PHYSPROP	2.7E-03	6.7E-05	PHYSPROP	9.0E+02	PHYSPROP	1.2E+02	PHYSPROP	7.8E+01	CR289	1.3E-01	1.4E-05	WATER9 (U.S. EPA, 2001)	1.0E+00	EPI	1.0E+00	PHYSPROP	1.0E+00	2.2E-02	5.3E-01	5.3E-04	4.0E-05	EPI		
Acetochlor		34256-82-1	2.7E-02	PHYSPROP	9.1E-07	2.2E-08	PHYSPROP	2.8E-05	PHYSPROP	1.1E+01	PubChem	1.1E+00	PubChem	2.2E-02	5.6E-06	WATER9 (U.S. EPA, 2001)	3.0E+02	EPI	3.0E+00	PHYSPROP	1.5E-03	1.8E-01	4.3E-01	5.5E-04	4.0E-05	EPI		
Acetone		67-64-1	5.8E-01	PHYSPROP	1.4E-03	3.5E-05	PHYSPROP	2.3E+02	PHYSPROP	9.5E+01	PHYSPROP	7.8E+01	CR289	1.1E-01	1.2E-06	WATER9 (U.S. EPA, 2001)	2.4E+00	EPI	2.4E+01	PHYSPROP	1.0E+00	PHYSPROP	1.5E-03	2.2E-01	5.3E-01	5.1E-02	4.0E-05	EPI
Acetone Cyanohydrin		75-86-5	8.5E-01	PHYSPROP	8.1E-08	2.0E-09	PHYSPROP	3.4E-01	PHYSPROP	<1.9E+01	PHYSPROP	9.3E-01	CR289	8.6E-02	1.0E-06	WATER9 (U.S. EPA, 2001)	1.0E+00	EPI	1.0E+00	PHYSPROP	1.8E-03	3.2E-01	7.6E-01	5.0E-04	4.0E-05	EPI		
Acetononitrile		75-05-8	4.1E+01	PHYSPROP	1.4E-03	3.5E-05	PHYSPROP	1.4E+03	PHYSPROP	4.4E+01	PHYSPROP	7.9E-01	CR289	1.3E-01	1.4E-06	WATER9 (U.S. EPA, 2001)	4.7E+00	EPI	4.7E+00	PHYSPROP	1.0E+00	PHYSPROP	1.4E-03	1.8E-01	4.3E-01	5.5E-04	4.0E-05	EPI
Acetophenone		98-87-3	1.2E+01	PHYSPROP	4.0E-04	1.0E-05	PHYSPROP	4.0E+01	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	CR289	6.0E-02	8.7E-06	WATER9 (U.S. EPA, 2001)	5.2E+00	EPI	5.2E+00	PHYSPROP	6.1E-01	PHYSPROP	1.6E-02	5.0E-06	4.0E-05	EPI		
Acenaphthalimofluorene, 2-		53-26-3	1.2E+02	PHYSPROP	7.8E-05	1.1E-06	PHYSPROP	2.7E+02	PHYSPROP	8.8E-05	PHYSPROP	8.8E-01	CR289	1.1E-01	1.2E-05	WATER9 (U.S. EPA, 2001)	1.2E+00	EPI	1.2E+00	PHYSPROP	2.1E+00	PHYSPROP	2.2E+03	1.9E+01	5.2E+01	7.5E+04	4.0E-05	EPI
Acrolein		107-02-8	5.6E+01	PHYSPROP	5.0E-03	1.2E-04	PHYSPROP	5.0E-03	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	CR289	1.1E-01	1.2E-05	WATER9 (U.S. EPA, 2001)	1.1E+00	EPI	1.1E+00	PHYSPROP	1.1E+00	PHYSPROP	1.0E+00	1.0E+00	4.0E-05	EPI		
Acrylamide		79-06-1	7.1E+01	PHYSPROP	7.0E-08	1.7E-09	EPI	7.0E-03	PHYSPROP	8.5E+01	PHYSPROP	1.2E+00	LANGE	1.1E-01	1.3E-05	WATER9 (U.S. EPA, 2001)	5.7E-00	EPI	6.7E-01	PHYSPROP	3.9E+00	PHYSPROP	7.3E-04	2.6E-01	6.3E-01	2.2E-04	4.0E-05	EPI
Acrylic Acid		79-10-7	7.2E+01	PHYSPROP	1.5E-05	3.7E-07	EPI	4.0E+01	PHYSPROP	1.3E+00	PHYSPROP	1.1E+00	CR289	1.0E+01	1.2E-06	WATER9 (U.S. EPA, 2001)	3.4E+00	EPI	3.4E+00	PHYSPROP	1.0E+00	PHYSPROP	1.7E-02	7.6E-01	6.4E-01	1.1E-03	4.0E-05	EPI
Acrylonitrile		107-13-1	5.3E+01	PHYSPROP	5.6E-05	1.4E-04	PHYSPROP	1.1E+00	PHYSPROP	8.4E-01	PHYSPROP	1.1E+00	CR289	1.1E-01	1.2E-06	WATER9 (U.S. EPA, 2001)	8.5E+00	EPI	8.5E+00	PHYSPROP	7.5E+04	PHYSPROP	2.1E-01	1.0E-01	5.0E-02	1.0E-05	4.0E-05	EPI
Adiponitrile		111-69-3	1.1E+02	PHYSPROP	4.9E-08	1.2E-09	EPI	6.8E-01	PHYSPROP	1.0E+00	PHYSPROP	9.7E-01	CR289	7.1E-02	9.0E-06	WATER9 (U.S. EPA, 2001)	2.0E+01	EPI	2.0E+01	PHYSPROP	6.0E-04	4.2E-01	4.2E+00	2.4E-04	4.0E-05	EPI		
Alachlor		15972-60-2	2.7E+02	PHYSPROP	3.4E-07	8.3E-09	PHYSPROP	2.2E-05	PHYSPROP	4.0E+01	PHYSPROP	1.1E+00	CR289	2.3E-02	5.7E-06	WATER9 (U.S. EPA, 2001)	3.1E+02	EPI	3.1E+02	PHYSPROP	6.8E-02	4.0E+00	8.2E+00	1.1E-01	4.0E-05	EPI		
Aldebaran		164-68-7	2.1E+02	PHYSPROP	3.4E-07	8.3E-09	EPI	1.0E+00	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	CR289	3.0E+02	4.2E-06	WATER9 (U.S. EPA, 2001)	1.0E+01	EPI	1.0E+01	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	1.0E+00	4.0E-05	EPI		
Aldebarane Sulfone		164-68-7	2.1E+02	PHYSPROP	4.0E-08	9.7E-10	EPI	1.0E+04	PHYSPROP	7.8E-01	PHYSPROP	7.8E-01	CR289	6.4E-02	6.4E-06	WATER9 (U.S. EPA, 2001)	1.0E+01	EPI	1.0E+01	PHYSPROP	1.8E-04	3.6E-04	3.6E-03	3.0E-03	4.0E-05	EPI		
Aldecarine		309-00-2	3.6E+02	PHYSPROP	1.4E-07	3.4E-09	EPI	8.0E-01	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	CR289	1.8E+00	1.0E+00	PubChem	1.8E+00	EPI	1.8E+00	PHYSPROP	1.2E+00	PHYSPROP	2.2E+00	1.2E+01	4.0E-05	EPI		
Allyl Alcohol		107-18-6	5.8E-01	PHYSPROP	2.0E-04	5.0E-06	PHYSPROP	2.6E+01	PHYSPROP	1.3E+02	PHYSPROP	1.3E+02	CR289	1.1E-01	1.2E-05	WATER9 (U.S. EPA, 2001)	1.9E+00	EPI	1.9E+00	PHYSPROP	1.0E+00	PHYSPROP	3.8E-02	2.2E-01	5.3E-01	3.6E-02	4.0E-05	RAGSE
Allyl Chloride		107-05-1	7.7E+01	PHYSPROP	4.5E-01	1.1E-02	PHYSPROP	3.7E+02	PHYSPROP	9.3E-01	PHYSPROP	9.4E-01	CR289	9.4E-02	1.1E-05	WATER9 (U.S. EPA, 2001)	1.5E+03	BAES	4.0E+01	PHYSPROP	3.4E+03	PHYSPROP	2.0E-03	2.8E-01	6.8E-01	1.1E-01	1.0E-05	RAGSE
Aluminum		7429-30-5	5.8E+01	PHYSPROP	8.8E-04	2.0E-05	PHYSPROP	8.8E-05	PHYSPROP	2.4E-09	PHYSPROP	2.4E-09	CR289	2.4E+00	PHYSPROP	2.4E+00	PHYSPROP	2.4E+00	PHYSPROP	2.9E-03	2.2E-01	5.3E-01	5.1E-02	4.0E-05	RAGSE			
Alumoxane		82-12-8	2.3E+02	PHYSPROP	1.7E-02	4.0E-04	PHYSPROP	6.0E-05	PHYSPROP	1.5E-07	PHYSPROP	1.5E-07	CR289	1.2E-02	2.7E-06	WATER9 (U.S. EPA, 2001)	2.5E+03	EPI	2.5E+03	PHYSPROP	2.2E+02	PHYSPROP	7.0E-02	3.2E-05	1.2E+00	4.0E-05	EPI	
Aminophenol, m-		591-37-5	1.1E+02	PHYSPROP	8.1E-09	2.0E-10	PHYSPROP	9.6E-03	PHYSPROP	2.6E+02	PHYSPROP	9.6E-01	CR289	9.6E-02	1.1E-06	WATER9 (U.S. EPA, 2001)	9.0E+01	EPI	9.0E+01	PHYSPROP	2.1E+02	PHYSPROP	6.0E-04	4.2E-01	4.2E+00	2.4E-04	4.0E-05	EPI
Aminophenol, o-		95-55-6	1.1E+02	PHYSPROP	8.1E-09	2.0E-10	PHYSPROP	9.6E-03	PHYSPROP	1.7E+02	PHYSPROP	9.6E-01	CR289	9.6E-02	1.1E-06	WATER9 (U.S. EPA, 2001)	9.2E+01	EPI	9.2E+01	PHYSPROP	2.0E+02	PHYSPROP	6.8E-04	4.3E-01	4.0E-09	4.0E-05	EPI	
Aminophenol, p-		123-30-8	1.1E+02	PHYSPROP	8.1E-09	2.0E-10	PHYSPROP	9.6E-03	PHYSPROP	3.6E-10	PHYSPROP	3.6E-10	CR289	4.0E-05	1.0E-06	WATER9 (U.S. EPA, 2001)	9.0E+01	EPI	9.0E+01	PHYSPROP	4.0E-05	1.0E-04	4.1E-04	4.0E-05	EPI			
Amirtraz		3309-61-1	2.9E+02	PHYSPROP	4.0E-04	9.9E-06	PHYSPROP	2.0E+02	PHYSPROP	9.6E-01	PHYSPROP	1.1E+00	CR289	2.2E+02	5.4E-06	WATER9 (U.S. EPA, 2001)	2.6E+05	EPI	5.5E+00	PHYSPROP	1.0E+00	PHYSPROP	1.1E+00	1.6E-01	6.0E-01	4.0E-05	RAGSE	
Ammonia		7664-17-7	1.7E+01	PHYSPROP	6.6E-04	1.6E-05	PHYSPROP	7.5E+00	PHYSPROP	7.5E+00	PHYSPROP	7.5E+00	CR289	7.0E-01	2.3E-02	PubChem	7.0E-01	EPI	7.0E-01	PHYSPROP	2.3E+00	PHYSPROP	1.3E+00	1.0E+00	4.0E-05	RAGSE		
Ammonium Sulfamate		7773-06-0	1.1E+02	PHYSPROP	6.6E-04	1.6E-05	PHYSPROP	7.5E-01	PHYSPROP	7.5E-01	PHYSPROP	7.5E-01	CR289	7.5E-01	1.0E-06	WATER9 (U.S. EPA, 2001)	1.5E+01	EPI	1.5E+01	PHYSPROP	1.5E+00	PHYSPROP	1.1E+00	1.0E-05	4.0E-05	RAGSE		
Amphetamine		7440-35-7	2.3E+02	PHYSPROP	3.7E-09	8.9E-12	PHYSPROP	3.7E-09	PHYSPROP	1.4E-02	PHYSPROP	1.4E-02	CR289	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	4.2E-03	1.5E-01	5.1E-01	5.1E-02	4.0E-05	RAGSE			
Antimony (metallic)		7440-35-7	2.3E+02	PHYSPROP	3.7E-09	8.9E-12	PHYSPROP	3.7E-09	PHYSPROP	1.5E-03	PHYSPROP	1.5E-03	CR289	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	3.0E+03	PHYSPROP	3.0E+03	1.5E-01	5.1E-02	4.0E-05	RAGSE		
Antimony Tetroxide		1314-09-9	3.2E+02	PHYSPROP	3.7E-09	8.9E-12	PHYSPROP	3.7E-09	PHYSPROP	1.5E-03	PHYSPROP	1.5E-03	CR289	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	3.0E+03	PHYSPROP	3.0E+03	1.5E-01	5.1E-02	4.0E-05	RAGSE		
Antimony Trioxide		1328-21-6	3.1E+02	PHYSPROP	3.7E-09	8.9E-12	PHYSPROP	3.7E-09	PHYSPROP	1.5E-03	PHYSPROP	1.5E-03	CR289	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	3.0E+03	PHYSPROP	3.0E+03	1.5E-01	5.1E-02	4.0E-05	RAGSE		
Antimony Trioxide		1309-64-4	2.9E+02	PHYSPROP	3.7E-09	8.9E-12	PHYSPROP	3.7E-09	PHYSPROP	1.5E-03	PHYSPROP	1.5E-03	CR289	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	3.0E+03	PHYSPROP	3.0E+03	1.5E-01	5.1E-02	4.0E-05	RAGSE		
Antimony Trioxide		1309-64-4	2.9E+02	PHYSPROP	3.7E-09	8.9E-12	PHYSPROP	3.7E-09	PHYSPROP	1.5E-03	PHYSPROP	1.5E-03	CR289	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	4.3E-01	PHYSPROP	3.0E+03	PHYSPROP	3.0E+03	1.5E-01	5.1E-02	4.0E-05	RAGSE		
Antimony Trioxide		1309-64-4	2.9E+02	PHYSPROP	3.7E-09	8.9E-12	PHYSPROP	3.7E-09	PHYSPROP	1.5E-03	PHYSPROP	1.5E-03	CR289	4.3E-01														

Contaminant		Molecular Weight		Volatile Parameters				Melting Point		Density		Diffusivity in Air and Water				Partition Coefficients				Water Solubility		Tapwater Dermal Parameters						
Analyte	CAS No.	MW	MW Ref.	H ⁺	HLC (atm ⁻¹ /mole)	H ⁺ and HLC Ref.	VP mmHg	Vp Ref.	MP °C	MW Ref.	Density (g/cm ³)	Density Ref.	Diffus. (cm ² /s)	Diffus. (cm ² /s)	D _a and D _w Ref.	K _d (L/kg)	K _d Ref.	K _c (L/kg)	K _c Ref.	log K _{ow} (unitless)	log K _{ow} Ref.	S (mg/L)	B (unitless)	T _{event} (hr)	t [*] (hr)	K _p (cm/hr)	K _p Ref.	
Carbon Disulfide	463-58-1	60.0601	PHYSPROP	2.8E+01	6.1E-01	EPI	9.4E+03	PHYSPROP	1.0E+00	CRC89	1.0E+00	WATER9 (U.S. EPA, 2001)	1.0E+00	EPI	1.3E+00	PHYSPROP	1.2E+00	PHYSPROP	7.9E+05	PHYSPROP	2.8E+04	2.8E+05	5.5E+01	9.4E+05	EPI			
Carboethoxyl	52585-14-8	55.0602	PHYSPROP	2.1E+02	4.0E+02	PHYSPROP	1.3E+08	PHYSPROP	3.1E+01	PHYSPROP	1.1E+00	CRC89	1.1E+00	WATER9 (U.S. EPA, 2001)	1.2E+01	EPI	6.8E+00	PHYSPROP	4.8E+01	PHYSPROP	4.8E+01	1.4E+01	3.4E+01	5.8E+02	EPI			
Carbon	5234-88-4	1.7E+02	PHYSPROP	1.3E+08	3.2E+10	EPI	1.5E+07	PHYSPROP	3.2E+01	PHYSPROP	1.5E+00	PHYSPROP	1.5E+00	WATER9 (U.S. EPA, 2001)	1.7E+02	EPI	1.5E+02	PHYSPROP	1.5E+02	PHYSPROP	1.2E+02	2.2E+00	2.0E+00	2.0E+00	EPI			
Ceric oxide	1306-38-3	1.7E+02	CRC89	3.8E+01	3.9E+11	EPI	1.0E+07	PHYSPROP	2.5E+03	CRC89	7.2E+00	CRC89	5.4E+02	1.0E+00	WATER9 (U.S. EPA, 2001)	1.0E+00	EPI	9.9E+01	PHYSPROP	7.9E+05	PHYSPROP	4.2E+03	8.9E+01	2.1E+04	8.4E+05	EPI		
Chloral Hydrate	302-17-0	1.7E+02	PHYSPROP	2.3E+07	5.7E-09	PHYSPROP	1.5E+01	PHYSPROP	2.7E+03	PHYSPROP	1.9E+00	PHYSPROP	5.4E+02	6.4E+00	WATER9 (U.S. EPA, 2001)	2.1E+01	EPI	1.9E+00	PHYSPROP	7.0E+02	PHYSPROP	1.1E+02	1.5E+00	3.6E+00	2.0E+03	EPI		
Chloramine	133-90-4	2.1E+02	PHYSPROP	1.6E+07	3.1E+01	EPI	1.0E+07	PHYSPROP	2.0E+02	PHYSPROP	1.0E+00	CRC89	4.8E+02	5.7E+00	WATER9 (U.S. EPA, 2001)	1.2E+02	EPI	2.2E+00	PHYSPROP	2.5E+02	PHYSPROP	1.2E+02	6.0E+00	1.9E+03	1.9E+03	EPI		
Chloranil	118-75-2	2.5E+02	PHYSPROP	1.3E+08	3.3E+10	PHYSPROP	2.3E+06	PHYSPROP	2.9E+02	PHYSPROP	1.6E+00	CRC89	3.1E+02	1.3E+00	WATER9 (U.S. EPA, 2001)	6.8E+00	EPI	6.2E+00	PHYSPROP	8.3E+01	PHYSPROP	2.1E+01	8.0E+01	1.1E+01	1.0E+01	EPI		
Chloradine	12789-03-4	4.1E+02	PHYSPROP	2.0E+03	4.9E+05	EPI	1.0E+06	PHYSPROP	1.1E+00	PHYSPROP	1.6E+00	CRC89	6.8E+02	1.0E+00	WATER9 (U.S. EPA, 2001)	1.8E+02	EPI	1.8E+04	PHYSPROP	9.2E+01	PHYSPROP	1.2E+02	1.2E+00	1.2E+00	1.2E+00	EPI		
Chloranone (Ketone)	143-12-5	2.2E+02	PHYSPROP	2.2E+03	5.0E+06	EPI	1.0E+06	PHYSPROP	2.2E+03	PHYSPROP	1.0E+00	CRC89	3.8E+02	4.4E+00	WATER9 (U.S. EPA, 2001)	1.2E+02	EPI	3.8E+00	PHYSPROP	3.7E+02	PHYSPROP	1.2E+02	1.1E+01	5.1E+03	5.1E+03	EPI		
Chloroformvinchlos	470-80-6	3.6E+02	PHYSPROP	1.2E+08	2.9E+08	EPI	7.5E+06	PHYSPROP	2.0E+01	PHYSPROP	1.8E+02	PHYSPROP	3.4E+02	4.4E+00	WATER9 (U.S. EPA, 2001)	1.3E+03	EPI	2.5E+00	PHYSPROP	1.2E+03	PHYSPROP	2.6E+03	2.2E+01	5.4E+04	5.4E+04	EPI		
Chloromuron, Ethyl-	90982-34-2	4.1E+02	PHYSPROP	7.4E+14	1.8E+15	EPI	4.0E+02	PHYSPROP	1.8E+02	PHYSPROP	5.9E+03	PHYSPROP	1.5E+01	2.2E+05	WATER9 (U.S. EPA, 2001)	7.2E+01	EPI	2.5E+00	PHYSPROP	6.3E+03	PHYSPROP	6.3E+03	6.3E+01	1.0E+02	1.0E+02	RAGSE		
Chloromuron	7782-50-5	7.1E+01	PHYSPROP	4.8E+01	1.2E+02	PHYSPROP	2.9E+00	PHYSPROP	2.9E+00	PHYSPROP	1.5E+01	CRC89	2.5E+01	BAES	8.5E+01	PHYSPROP	3.2E+03	PHYSPROP	2.5E+01	2.5E+01	3.2E+01	3.2E+01	1.0E+02	1.0E+02	RAGSE			
Chlorine Dioxide	10049-04-4	6.7E+01	EPI	1.6E+00	4.0E+02	Tonet HSDB	7.6E+02	Tonet HSDB	2.9E+01	CRC89	2.8E+00	CRC89	1.6E+01	2.2E+00	WATER9 (U.S. EPA, 2001)	4.4E+01	EPI	9.0E+02	PHYSPROP	6.4E+05	CRC89	3.7E+03	3.4E+01	8.1E+01	1.0E+02	RAGSE		
Chlorite (Sodium Salt)	7758-19-2	9.0E+01	EPI	1.0E+02	PHYSPROP	2.4E+00	5.9E+02	PHYSPROP	2.5E+03	PHYSPROP	1.1E+00	CRC89	8.0E+02	1.0E+00	WATER9 (U.S. EPA, 2001)	4.4E+01	EPI	2.1E+00	PHYSPROP	3.8E+02	PHYSPROP	3.8E+02	3.8E+01	9.2E+01	1.0E+02	EPI		
Chloro-1,1,1-trifluoroethane, 1,1-	75-56-3	1.0E+02	PHYSPROP	1.0E+02	1.0E+02	PHYSPROP	1.0E+02	PHYSPROP	1.0E+02	PHYSPROP	1.0E+00	CRC89	6.1E+01	7.9E+00	WATER9 (U.S. EPA, 2001)	6.1E+01	EPI	2.0E+00	PHYSPROP	6.7E+02	PHYSPROP	6.6E+02	1.0E+01	1.0E+01	1.0E+01	EPI		
Chloro-1,3-butadiene, 2-	126-99-8	9.8E+01	PHYSPROP	2.3E+00	5.0E+02	PHYSPROP	2.2E+02	PHYSPROP	1.1E+00	PHYSPROP	9.6E+01	CRC89	9.6E+01	1.0E+00	WATER9 (U.S. EPA, 2001)	9.6E+01	EPI	2.3E+00	PHYSPROP	8.6E+02	PHYSPROP	8.6E+02	1.3E+01	1.3E+01	1.3E+01	EPI		
Chloro-2,4-dinitro-HCl, 4-	91-63-3	1.0E+02	PHYSPROP	1.0E+02	1.0E+02	PHYSPROP	1.0E+02	PHYSPROP	1.0E+02	PHYSPROP	1.0E+00	CRC89	7.0E+02	8.0E+00	WATER9 (U.S. EPA, 2001)	7.0E+02	EPI	2.3E+00	PHYSPROP	9.5E+02	PHYSPROP	9.5E+02	1.2E+01	1.2E+01	1.2E+01	EPI		
Chloroacetaldehyde, 2-	107-20-0	7.8E+01	PHYSPROP	8.8E-04	2.4E+05	PHYSPROP	6.4E+01	PHYSPROP	1.6E+01	PHYSPROP	1.2E+00	CRC89	1.2E+00	1.2E+00	WATER9 (U.S. EPA, 2001)	1.2E+00	EPI	9.0E-02	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	6.5E-01	6.5E-01	6.5E-01	EPI		
Chloroacetic Acid	79-11-8	9.4E+01	PHYSPROP	3.8E-07	9.3E-09	PHYSPROP	6.5E-02	PHYSPROP	1.4E-02	PHYSPROP	5.4E-03	PHYSPROP	5.2E-02	8.7E-04	WATER9 (U.S. EPA, 2001)	9.4E+01	EPI	1.4E-02	PHYSPROP	8.6E+00	PHYSPROP	8.6E+00	8.5E-01	6.5E-01	6.5E-01	EPI		
Chloroacetonaphone, 2-	532-27-4	1.5E+02	PHYSPROP	1.4E-06	3.5E-06	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	CRC89	9.9E+01	1.0E+00	WATER9 (U.S. EPA, 2001)	1.0E+00	EPI	1.9E-01	PHYSPROP	1.9E-01	PHYSPROP	1.9E-01	1.9E-02	1.9E-02	1.9E-02	RAGSE		
Chloroamiline, p-	106-47-8	1.3E+02	PHYSPROP	4.7E-05	1.2E-06	EPI	2.7E+02	PHYSPROP	7.3E+00	PHYSPROP	1.4E+00	CRC89	7.0E+02	1.0E+00	WATER9 (U.S. EPA, 2001)	1.1E+02	EPI	1.8E+00	PHYSPROP	3.9E+03	PHYSPROP	2.2E+02	5.4E-01	1.3E+00	5.0E-03	EPI		
Chlorobenzen	108-90-7	1.1E+02	PHYSPROP	1.3E-01	3.1E-03	PHYSPROP	1.2E+01	PHYSPROP	4.5E+00	PHYSPROP	1.1E+00	CRC89	7.2E-02	9.5E-06	WATER9 (U.S. EPA, 2001)	1.2E+02	EPI	2.3E+00	PHYSPROP	6.0E+02	PHYSPROP	1.2E+01	1.0E+01	2.8E+00	1.0E+01	EPI		
Chlorobenzen sulfonic acid, p-	98-66-8	1.0E+02	PHYSPROP	1.0E+00	1.0E+00	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	CRC89	5.7E+02	6.7E-06	WATER9 (U.S. EPA, 2001)	1.0E+00	EPI	1.0E+00	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	1.0E+00	1.0E+00	1.0E+00	EPI		
Chloroform	510-66-6	3.5E+02	PHYSPROP	1.0E+05	7.0E+06	EPI	2.0E+06	PHYSPROP	2.0E+06	PHYSPROP	1.0E+00	CRC89	7.0E+02	1.0E+06	WATER9 (U.S. EPA, 2001)	1.0E+00	EPI	4.0E+00	PHYSPROP	4.0E+00	PHYSPROP	4.0E+00	4.0E+00	4.0E+00	4.0E+00	EPI		
Chloroform, p-	514-99-5	8.6E+01	PHYSPROP	1.7E+00	4.1E+02	PHYSPROP	7.3E+03	PHYSPROP	1.1E+00	PHYSPROP	1.5E+00	CRC89	1.5E+00	1.5E+00	WATER9 (U.S. EPA, 2001)	1.2E+01	EPI	1.0E+00	PHYSPROP	1.3E+01	PHYSPROP	1.3E+01	7.7E+01	2.7E+03	2.7E+03	EPI		
Chloroform, p-	74-43-9	8.6E+01	PHYSPROP	1.2E+02	2.2E+02	PHYSPROP	1.2E+02	PHYSPROP	1.2E+02	PHYSPROP	1.2E+00	CRC89	1.0E+01	1.2E+00	WATER9 (U.S. EPA, 2001)	1.3E+00	EPI	1.3E+00	PHYSPROP	1.3E+00	PHYSPROP	1.3E+00	1.3E+00	1.3E+00	1.3E+00	EPI		
Chlorotoluene, o-	101-21-3	2.1E+02	PHYSPROP	3.6E-01	3.2E+03	PHYSPROP	2.3E+05	PHYSPROP	4.0E-02	PHYSPROP	4.1E-01	PHYSPROP	1.2E+02	PHYSPROP	1.2E+01	1.2E+00	WATER9 (U.S. EPA, 2001)	1.3E+01	EPI	1.0E+01	PHYSPROP	1.0E+01	PHYSPROP	1.0E+01	8.0E-01	8.0E-01	8.0E-01	EPI
Chlorotoluene, o-	104-30-8	2.1E+02	PHYSPROP	1.2E+02	2.2E+02	PHYSPROP	1.2E+02	PHYSPROP	1.2E+02	PHYSPROP	1.2E+00	CRC89	1.0E+01	1.0E+00	WATER9 (U.S. EPA, 2001)	1.1E+01	EPI	1.0E+00	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	8.0E-01	8.0E-01	8.0E-01	EPI		
Chlorotoluene, o-	139-73-2	3.5E+02	PHYSPROP	1.2E+04	2.9E+06	PHYSPROP	2.0E+05	PHYSPROP	1.2E+01	PHYSPROP	1.2E+00	CRC89	1.2E+00	1.2E+00	WATER9 (U.S. EPA, 2001)	1.2E+00	EPI	3.8E+02	PHYSPROP	3.8E+02	PHYSPROP	3.8E+02	3.8E+02	3.8E+02	3.8E+02	EPI		
Chlorotoluene, p-	100-00-5	2.6E+02	PHYSPROP	2.0E+04	4.9E+06	PHYSPROP	2.0E+05	PHYSPROP	1.2E+02	PHYSPROP	1.2E+00	CRC89	1.2E+00	1.2E+00	WATER9 (U.S. EPA, 2001)	1.2E+00	EPI	3.8E+02	PHYSPROP	3.8E+02	PHYSPROP	3.8E+02	3.8E+02	3.8E+02	3.8E+02	EPI		
Chlorophenol, o-	95-57-8	1.3E+02	PHYSPROP	4.6E-05	1.1E-05	PHYSPROP	1.2E+04	PHYSPROP	2.5E+00	PHYSPROP	9.8E-05	PHYSPROP	1.3E+00	PHYSPROP	1.3E+00	PHYSPROP	1.3E+00	PHYSPROP	1.3E+00	PHYSPROP	1.3E+00	1.3E+00	1.3E+00	1.3E+00	EPI			
Chloropropionic	76-06-2	1.6E+02	PHYSPROP	8.4E-02	2.1E-03	PHYSPROP	2.4E+01	PHYSPROP	1.6E+00	PHYSPROP	1.7E+00	PHYSPROP	1.7E+00	PHYSPROP	1.7E+00	PHYSPROP	1.7E+00	PHYSPROP	1.7E+00	PHYSPROP	1.7E+00	1.8E+01	1.8E+01	1.8E+01	EPI			
Chlorotoluene, p-	13197-73-2	3.2E+02	PHYSPROP	2.5E-05	6.2E-07	PHYSPROP	1.7E-01	PHYSPROP	3.0E+01	PHYSPROP	7.6E+01	PHYSPROP	8.5E-01	PHYSPROP	8.5E-01	PHYSPROP	8.5E-01	PHYSPROP	8.5E-01	PHYSPROP	8.5E-01	8.5E-01	8.5E-01	8.5E-01	EPI			
Cumene	98-82-8	1.2E+02	PHYSPROP	4.7E-01	1.0E-02	PHYSPROP	4.5E+00	PHYSPROP	9.6E-01	PHYSPROP	9.6E-01	PHYSPROP	9.6E-01	PHYSPROP	9.6E-01	PHYSPROP	9.6E-01	PHYSPROP	9.6E-01	PHYSPROP	9.6E-01	1.0E+00	1.0E+00	1.0E+00	EPI			
Cupferron	135-20-6	1.6E+0																										

Contaminant		Molecular Weight		Volatile Parameters				Melting Point		Density		Diffusivity in Air and Water				Partition Coefficients				Water Solubility		Tapwater Dermal Parameters						
Analyte	CAS No.	MW	MW Ref.	H ⁺	HLC (atm ⁻¹ /mole)	H ⁺ and HLC Ref.	VP mmHg	VP Ref.	MP °C	MW Ref.	Density (g/cm ³)	Density Ref.	Diffusion (cm ² /s)	D _a	D _w and D _a Ref.	K _d (L/kg)	K _d Ref.	K _c (unitless)	log K _{ow} Ref.	S (mg/L)	B (unitless)	T _{event} (hr)	t [*] (hr)	K _p (cm/hr)	K _p Ref.			
Dimethylbenzene	1918-09-9	2.25e+02	PHYSPROP	8.9E-08	2.2E-09	EPI	1.5E-05	PHYSPROP	1.2E+02	CR289	2.9E-06	7.8E-06	WATER9 (U.S. EPA, 2001)	2.3E+01	EPI	1.5E-02	PHYSPROP	8.3E-03	1.3E-01	2.2E-04	4.4E-00	2.7E-03	EPI					
Dichloro-2-butene, 1,4-	76-41-9	1.45e+02	PHYSPROP	3.8E-01	8.5E-03	PHYSPROP	3.0E+00	EPI	1.2E+00	CR289	1.2E+00	LANGE	6.1E-02	7.3E-06	WATER9 (U.S. EPA, 2001)	1.3E+02	EPI	1.8E+01	PHYSPROP	7.1E-02	1.3E-01	1.3E-01	1.3E-01	1.3E-01	EPI			
Dichloro-2-butene, cis-1,4-	1476-11-5	1.3E+02	PHYSPROP	2.7E-01	6.6E-04	PHYSPROP	4.1E+01	PHYSPROP	1.3E+01	CR289	1.2E+00	9.3E-06	WATER9 (U.S. EPA, 2001)	2.6E+00	PHYSPROP	7.5E-02	PHYSPROP	7.1E-02	1.3E-01	1.3E-01	1.3E-01	1.3E-01	EPI					
Dichloro-2-butene, trans-1,4-	110-57-6	1.3E+02	PHYSPROP	2.7E-02	6.6E-04	EPI	3.4E+00	PHYSPROP	1.2E+00	CR289	6.6E-02	9.3E-06	WATER9 (U.S. EPA, 2001)	1.3E+02	EPI	2.6E+00	PHYSPROP	7.1E-02	5.3E-01	1.3E-00	1.7E-02	1.3E-01	EPI					
Dichloroacetic Acid	79-43-7	1.3E+02	PHYSPROP	3.4E-07	8.4E-09	PHYSPROP	1.8E-01	PHYSPROP	1.4E+00	PHYSPROP	1.6E+00	CR289	7.2E-02	1.1E-06	WATER9 (U.S. EPA, 2001)	2.3E+00	PHYSPROP	5.3E-03	5.5E-01	1.3E-00	1.2E-02	1.3E-01	EPI					
Dichlorobenzene, 1,2-	95-50-1	1.5E+02	PHYSPROP	7.8E-01	1.9E-03	PHYSPROP	1.4E+01	PHYSPROP	1.7E+01	PHYSPROP	1.3E+00	CR289	5.6E-02	8.9E-06	WATER9 (U.S. EPA, 2001)	3.8E+02	PHYSPROP	2.1E-01	7.0E-01	1.7E+00	4.5E-01	1.3E-01	EPI					
Dichlorobenzene, 1,4-	106-46-7	1.5E+02	PHYSPROP	1.9E-02	2.4E-03	PHYSPROP	1.7E+00	PHYSPROP	5.2E+01	PHYSPROP	1.2E+00	CR289	5.5E-02	8.7E-06	WATER9 (U.S. EPA, 2001)	3.8E+02	PHYSPROP	2.1E-01	7.0E-01	1.7E+00	4.5E-01	1.3E-01	EPI					
Dichlorobenzene, 3,3'-	91-94-1	2.5E+02	PHYSPROP	1.2E-01	2.8E-11	PHYSPROP	2.6E+00	PHYSPROP	1.3E+00	PHYSPROP	1.2E+00	CR289	4.7E-02	7.5E-06	WATER9 (U.S. EPA, 2001)	3.2E+03	PHYSPROP	3.2E+02	PHYSPROP	7.8E-02	2.8E+00	6.6E+00	1.3E-02	1.3E-01	EPI			
Dichlorobenzene, 4,4'-	90-23-2	2.5E+02	PHYSPROP	4.4E-01	1.0E-02	PHYSPROP	5.6E+00	PHYSPROP	1.5E+00	PHYSPROP	1.5E+00	CR289	4.2E-02	7.5E-06	WATER9 (U.S. EPA, 2001)	2.8E+03	PHYSPROP	3.2E+02	PHYSPROP	7.8E-02	2.8E+00	6.6E+00	1.3E-02	1.3E-01	EPI			
Dichlorodimethylmethane	75-71-8	1.2E+02	PHYSPROP	1.4E+01	3.4E-01	PHYSPROP	4.8E-03	PHYSPROP	1.6E+02	PHYSPROP	1.5E+00	PERRY	7.6E-02	1.1E-05	WATER9 (U.S. EPA, 2001)	4.4E+01	PHYSPROP	2.8E+02	PHYSPROP	5.6E-02	1.2E-00	9.0E-03	1.3E-01	1.3E-01	EPI			
Dichloroethane, 1,1-	75-34-3	9.9E+01	PHYSPROP	2.3E-01	5.6E-03	PHYSPROP	2.3E+02	PHYSPROP	3.7E-01	PHYSPROP	1.2E+00	CR289	8.4E-02	1.05E-05	WATER9 (U.S. EPA, 2001)	3.2E+01	PHYSPROP	1.8E+01	PHYSPROP	6.5E-02	1.8E+01	6.8E-03	1.3E-01	1.3E-01	EPI			
Dichloroethane, 1,2-	107-06-2	9.9E+01	PHYSPROP	4.8E-02	1.2E-03	PHYSPROP	7.9E+01	PHYSPROP	1.2E+00	CR289	8.6E-02	1.1E-05	WATER9 (U.S. EPA, 2001)	4.0E+01	PHYSPROP	1.5E+00	PHYSPROP	6.8E-02	1.8E+01	6.3E-03	1.2E-01	1.3E-01	EPI					
Dichloroethylene, 1,1'	75-35-4	9.7E+01	PHYSPROP	1.1E+00	2.6E-02	PHYSPROP	6.0E+02	PHYSPROP	1.2E+00	CR289	8.0E-02	1.1E-05	WATER9 (U.S. EPA, 2001)	3.2E+01	PHYSPROP	1.2E+00	PHYSPROP	4.4E-02	3.7E-01	8.8E-01	1.2E-02	1.3E-01	EPI					
Dichloroethylene, 1,2-cis-	156-59-2	9.7E+01	PHYSPROP	1.7E-01	4.1E-03	PHYSPROP	3.3E+02	PHYSPROP	2.0E+01	PHYSPROP	1.3E+00	CR289	8.8E-02	1.1E-05	WATER9 (U.S. EPA, 2001)	4.0E+01	PHYSPROP	1.6E+00	PHYSPROP	4.2E-02	3.7E-01	9.0E-01	1.1E-02	1.3E-01	EPI			
Dichloroethylene, 1,2-trans-	156-60-5	9.7E+01	PHYSPROP	3.8E-01	9.4E-03	PHYSPROP	5.0E+01	PHYSPROP	1.2E+00	CR289	7.3E-02	9.7E-06	WATER9 (U.S. EPA, 2001)	2.1E+01	PHYSPROP	1.2E+00	PHYSPROP	7.3E-02	9.7E-06	WATER9 (U.S. EPA, 2001)	1.0E+01	PHYSPROP	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	EPI
Dichloroform, 1,1'	120-83-2	1.6E+02	PHYSPROP	1.8E-01	4.3E-06	EPI	4.5E+00	PHYSPROP	1.4E+00	PHYSPROP	1.4E+00	CR289	4.9E-02	8.7E-06	WATER9 (U.S. EPA, 2001)	1.5E+02	SSL	3.1E+01	PHYSPROP	6.6E-03	8.6E-01	1.0E+00	1.2E+00	1.0E+00	EPI			
Dichloroformic Acid, 2,4-	94-75-7	2.2E+02	PHYSPROP	4.4E-01	1.0E-02	PHYSPROP	4.4E-01	PHYSPROP	1.1E+00	PubChem	8.0E-02	1.0E-05	WATER9 (U.S. EPA, 2001)	3.0E+01	PHYSPROP	6.8E-03	8.6E-01	1.0E+00	1.2E+00	1.0E+00	EPI							
Dichloropropene, 1,2-	75-34-5	1.1E+02	PHYSPROP	1.2E-01	2.8E-03	PHYSPROP	5.3E+01	PHYSPROP	1.1E+00	CR289	7.3E-02	9.7E-06	WATER9 (U.S. EPA, 2001)	1.5E+01	PHYSPROP	1.8E+00	PHYSPROP	3.1E+02	PHYSPROP	1.5E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	EPI			
Dichloropropene, 1,3-	142-28-9	1.1E+02	PHYSPROP	4.0E-02	9.8E-04	PHYSPROP	1.8E+01	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	CR289	7.4E-02	9.8E-06	WATER9 (U.S. EPA, 2001)	7.2E+01	PHYSPROP	2.0E+00	PHYSPROP	3.2E+02	4.5E-01	1.1E+00	7.8E-03	1.3E-01	EPI			
Dichloropropene, 2,3-	616-23-9	1.3E+02	PHYSPROP	1.5E-07	3.6E-09	PHYSPROP	1.8E-01	PHYSPROP	2.2E+01	EPI	1.4E+00	CR289	6.8E-02	9.3E-06	WATER9 (U.S. EPA, 2001)	5.6E+00	PHYSPROP	6.4E-04	5.5E-01	1.3E+00	1.2E-02	1.3E-01	EPI					
Dichloropropene, 1,1'-	542-75-6	1.1E+02	PHYSPROP	1.5E-07	3.6E-09	PHYSPROP	3.4E+01	PHYSPROP	5.0E-06	PHYSPROP	1.2E+00	CR289	7.6E-02	1.0E-06	WATER9 (U.S. EPA, 2001)	7.2E+01	PHYSPROP	2.0E+00	PHYSPROP	3.4E-02	4.4E-01	1.1E+00	8.3E-03	1.3E-01	EPI			
Dichlorosilane	62-73-7	2.2E+02	PHYSPROP	2.4E-05	5.7E-07	EPI	1.6E-02	PHYSPROP	6.0E+01	PHYSPROP	1.4E+00	CR289	2.8E-02	7.3E-06	WATER9 (U.S. EPA, 2001)	5.4E+01	EPI	1.4E+00	PHYSPROP	6.0E+00	4.4E-00	8.0E-04	8.0E-04	1.3E-01	EPI			
Dichlorotoluene	141-66-2	2.4E+02	PHYSPROP	2.1E-09	5.0E-11	PHYSPROP	1.6E+00	PHYSPROP	1.7E+00	CR289	2.5E-02	6.4E-06	WATER9 (U.S. EPA, 2001)	1.7E+01	PHYSPROP	3.2E+00	PHYSPROP	1.6E+00	1.0E+00	4.5E-03	7.3E-03	1.3E-01	EPI					
Dicyclopentadiene	77-73-6	1.3E+02	PHYSPROP	2.6E+00	6.3E-02	PHYSPROP	2.3E+00	PHYSPROP	1.0E+00	PHYSPROP	9.3E-01	LANGE	5.6E-02	7.8E-06	WATER9 (U.S. EPA, 2001)	1.5E+03	PHYSPROP	3.2E+00	PHYSPROP	1.5E+03	1.5E+00	1.5E+00	1.5E+00	1.5E+00	EPI			
Dieldrin	69-63-0	3.8E+02	PHYSPROP	4.1E-04	1.0E-05	PHYSPROP	1.8E+00	PHYSPROP	1.8E+00	CR289	3.0E+00	6.0E-06	WATER9 (U.S. EPA, 2001)	2.0E+04	PHYSPROP	2.0E+00	PHYSPROP	2.4E+01	1.0E+00	1.0E+00	1.0E+00	1.0E+00	EPI					
Diesel Engine Exhaust	E17-39615	1.1E+02	PHYSPROP	1.6E-09	3.9E-11	EPI	2.8E-04	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	CR289	7.7E-02	9.8E-06	WATER9 (U.S. EPA, 2001)	1.2E+00	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	9.8E-01	4.5E-05	1.4E-01	1.4E-01	EPI			
Dithylene Glycol Monobutyl Ether	112-34-5	1.5E+02	PHYSPROP	2.9E-07	7.2E-09	PHYSPROP	2.2E-02	PHYSPROP	9.8E-01	PHYSPROP	9.8E-01	CR289	4.1E-01	7.0E-06	WATER9 (U.S. EPA, 2001)	1.0E+01	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	8.5E-01	2.2E-03	4.5E-04	1.4E-01	EPI			
Dithylene Glycol Monoethyl Ether	111-90-0	1.3E+02	PHYSPROP	9.1E-07	2.2E-08	PHYSPROP	5.3E-02	PHYSPROP	1.3E-01	PHYSPROP	1.3E-01	CR289	4.1E-01	7.0E-06	WATER9 (U.S. EPA, 2001)	1.0E+01	PHYSPROP	5.4E-04	5.4E-01	1.3E-01	5.4E-01	1.3E-01	EPI					
Dithydropyran	75-79-6	1.2E+02	PHYSPROP	5.6E-06	1.4E-07	PHYSPROP	5.6E-06	PHYSPROP	4.8E-01	PHYSPROP	4.8E-01	CR289	6.7E-02	9.2E-06	WATER9 (U.S. EPA, 2001)	5.4E+00	PHYSPROP	5.3E-04	5.2E-01	1.3E-01	5.4E-01	1.3E-01	EPI					
Dithymylacetate	56-53-1	2.7E+02	PHYSPROP	1.7E+01	4.6E-09	PHYSPROP	1.7E+00	PHYSPROP	1.7E+00	CR289	9.0E-01	2.05E-05	WATER9 (U.S. EPA, 2001)	3.2E+01	PHYSPROP	7.5E-01	PHYSPROP	6.5E-01	2.5E-01	1.3E-01	1.3E-01	1.3E-01	EPI					
Dithymylbenzene	60-11-7	2.3E+02	PHYSPROP	1.6E-08	4.0E-10	EPI	7.0E-08	PHYSPROP	1.2E+02	PHYSPROP	9.0E-01	CR289	9.0E-01	2.05E-05	WATER9 (U.S. EPA, 2001)	3.2E+01	PHYSPROP	7.5E-01	PHYSPROP	6.5E-01	2.5E-01	1.3E-01	1.3E-01	1.3E-01	EPI			
Dithymylbenzene, HCl 2,4-	21436-96-2	1.2E+02	PHYSPROP	9.5E-05	2.3E-06	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	CR289	9.5E-05	2.3E-06	WATER9 (U.S. EPA, 2001)	3.5E+02	PHYSPROP	6.5E-01	2.5E-01	1.3E-01	1.3E-01	1.3E-01	EPI							
Dithymylbenzene, 1,2-	95-68-1	1.2E+02	PHYSPROP	1.0E-05	2.5E-06	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	CR289	9.5E-05	2.3E-06	WATER9 (U.S. EPA, 2001)	3.5E+02	PHYSPROP	6.5E-01	2.5E-01	1.3E-01	1.3E-01	1.3E-01	EPI							
Dithymylformamide	121-69-7	1.2E+02	PHYSPROP	2.3E-03	5.7E-05	EPI	7.0E-01	PHYSPROP	2.5E+02	PHYSPROP	9.6E-01	CR289	6.9E-01	6.9E-06	WATER9 (U.S. EPA, 2001)	7.9E+01	PHYSPROP	2.3E+00	PHYSPROP	1.5E+00	7.0E-01	1.3E-01	1.3E-01	1.3E-01	EPI			
Dithymylhydrazine	119-93-7	2.1E+02	PHYSPROP	3.2E-03	8.3E-11	PHYSPROP	1.0E+01	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	CR289	6.5E-02	6.2E-06	WATER9 (U.S. EPA, 2001)	2.0E+01	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	EPI			
Dithymylmethane	119-93-7	2.1E+02	PHYSPROP	3.2E-03	8.3E-11	PHYSPROP	1.0E+01	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	CR289	6.5E-02	6.2E-06	WATER9 (U.S. EPA, 2001)	2.0E+01	PHYSPROP</td											

Contaminant		Molecular Weight		Volatile Parameters				Melting Point		Density		Diffusivity in Air and Water				Partition Coefficients				Water Solubility		Tapwater Dermal Parameters						
Analyte	CAS No.	MW	MW Ref.	H ⁺	HLC (atm·m ³ /mole)	H ⁺ and HLC Ref.	VP mmHg	VP Ref.	MP °C	MP Ref.	Density (g/cm ³)	Density Ref.	Diffus. (cm ² /s)	Diffus. Ref.	D _a and D _w Ref.	K _d (L/kg)	K _d Ref.	K _{oc} (L/kg)	K _{oc} Ref.	log K _{ow} (unitless)	log K _{ow} Ref.	S (mg/L)	B (mg/L)	T _{wait} (hr)	t [*] (hr)	K _p (cm/hr)	K _p Ref.	
Ethylene Glycol Monobutyl Ether	111-76-2	125.02	PHYSPROP	6.5E-05	1.8E-06	PHYSPROP	8.5E-01	PHYSPROP	7.5E+01	PHYSPROP	9.0E-01	CR089	6.3E-02	8.1E-06	WATER9 (U.S. EPA, 2001)	2.8E+00	EPI	4.3E-01	PHYSPROP	1.0E+00	PHYSPROP	5.1E-03	4.8E-01	1.2E-00	4.8E-01	EP1		
Ethylene Oxide	75-33-5	44.01	PHYSPROP	8.1E-03	1.5E-04	PHYSPROP	1.3E+03	PHYSPROP	1.1E+02	PHYSPROP	8.8E-01	CR089	1.3E+01	1.8E-05	WATER9 (U.S. EPA, 2001)	3.2E+00	EPI	3.3E-01	PHYSPROP	1.0E+00	PHYSPROP	1.4E-03	4.5E-01	5.6E-04	4.5E-01	EP1		
Ethylene Thiourea	96-45-7	1.0E+02	PHYSPROP	5.6E-10	1.2E-11	PHYSPROP	2.0E+02	PHYSPROP			8.7E-01	1.0E+05	WATER9 (U.S. EPA, 2001)	1.3E+01	EPI	6.5E-01	PHYSPROP	5.9E-01	PHYSPROP	5.9E-01	3.9E-01	1.3E+01	4.4E-01	4.4E-01	EP1			
Ethylenimine	151-56-4	43.0E-01	PHYSPROP	4.9E-04	1.2E-05	PHYSPROP	2.1E+02	PHYSPROP	7.8E+01	PHYSPROP	9.3E-01	CRC89	1.3E-01	1.4E-05	WATER9 (U.S. EPA, 2001)	9.0E+00	EPI	2.8E-01	PHYSPROP	1.0E+00	PHYSPROP	1.5E-03	1.8E-01	4.4E-01	5.8E-04	EP1		
Ethylophthalyl Ethyl Glycolate	84-72-0	2.8E+02	PHYSPROP	2.7E-07	6.8E-09	PHYSPROP	2.2E-04	PHYSPROP	2.3E+01	PHYSPROP	4.1E-01	PHYSPROP	4.4E-02	5.2E-06	WATER9 (U.S. EPA, 2001)	2.2E+00	PHYSPROP	7.7E-03	3.9E+00	9.4E-01	1.2E-03	PHYSPROP	2.9E-02	5.3E+00	1.3E+01	4.4E-01	EP1	
Fenamiphos	2224-92-0	3.0E+02	PHYSPROP	4.9E-04	1.2E-09	PHYSPROP	1.0E+06	PHYSPROP	4.9E+01	PHYSPROP	1.2E+00	CR089	2.1E+02	5.4E-06	WATER9 (U.S. EPA, 2001)	4.0E+02	EPI	3.2E+00	PHYSPROP	3.3E+02	PHYSPROP	5.9E-02	5.3E+00	1.3E+01	4.4E-01	EP1		
Fenvalerate	39515-41-4	3.5E+02	PHYSPROP	3.1E-04	7.6E-06	PHYSPROP	1.5E+06	PHYSPROP	1.5E+01	PHYSPROP	5.5E-06	PHYSPROP	1.2E+00	CR089	1.8E-02	4.5E-06	WATER9 (U.S. EPA, 2001)	2.2E+04	EPI	5.7E+00	PHYSPROP	3.9E-01	PHYSPROP	1.2E+00	9.5E+00	3.7E+01	1.7E+00	EP1
Fluoracetamide	51630-58-1	4.2E+02	PHYSPROP	1.0E+06	3.5E-08	PHYSPROP	4.0E+01	PHYSPROP	7.4E+01	PHYSPROP	1.0E+06	PHYSPROP	1.2E+00	CR089	6.5E-02	6.2E-06	WATER9 (U.S. EPA, 2001)	7.4E+01	EPI	2.4E+05	PHYSPROP	2.4E+02	PHYSPROP	7.4E+01	9.1E+01	9.4E-02	EP1	
Fluoruron	2163-02-0	2.0E+02	PHYSPROP	1.1E-07	2.6E-09	PHYSPROP	9.4E-07	PHYSPROP			5.0E-06	PHYSPROP	1.2E+00	CR089	1.2E+02	5.9E-06	WATER9 (U.S. EPA, 2001)	2.3E+02	EPI	2.4E+00	PHYSPROP	1.0E+01	PHYSPROP	1.2E+02	1.0E+01	1.2E+02	EP1	
Fluoride	16984-48-8	3.6E+01	EPI								2.5E+02	EPI							1.5E+02	BAES			2.4E+03	1.7E+01	4.1E-01	1.0E-03	RAGSE	
Fluorine (Soluible Fluoride)	77824-14-1	3.8E+01	PHYSPROP	3.3E-07	8.1E-09	EPI	9.8E-08	PHYSPROP	1.5E+02	PHYSPROP	1.6E+00	CR089	4.0E-02	4.7E-06	WATER9 (U.S. EPA, 2001)	1.5E+02	BAES	5.7E+04	EPI	3.2E+00	PHYSPROP	1.2E+01	PHYSPROP	2.4E+03	1.7E+01	4.1E-01	1.0E-03	RAGSE
Fluoride	59756-60-3	3.6E+02	PHYSPROP	3.3E-07	8.1E-09	EPI	9.8E-08	PHYSPROP	1.5E+02	PHYSPROP	1.6E+00	CR089	4.0E-02	4.7E-06	WATER9 (U.S. EPA, 2001)	1.5E+02	BAES	5.7E+04	EPI	3.2E+00	PHYSPROP	2.0E+02	7.3E+00	1.3E+01	2.8E+03	EP1		
Flurprimidol	56425-91-3	3.1E+02	PHYSPROP	5.4E-08	1.3E-09	EPI	3.6E-07	PHYSPROP	9.5E+01	PHYSPROP	9.5E-01	PHYSPROP	4.1E-02	5.2E-06	WATER9 (U.S. EPA, 2001)	2.2E+03	EPI	1.1E+00	PHYSPROP	3.1E+02	PHYSPROP	3.1E+02	5.9E+00	1.4E-01	4.6E-01	EP1		
Fusilazole	85509-19-3	3.2E+02	PHYSPROP	9.2E-08	2.3E-09	PHYSPROP	2.9E-07	PHYSPROP	5.4E+01	PHYSPROP	1.0E+00	CR089	4.1E-02	4.8E-06	WATER9 (U.S. EPA, 2001)	8.1E+04	EPI	3.7E+00	PHYSPROP	6.4E+01	PHYSPROP	6.1E+01	7.7E+00	EP1				
Flutolanil	65332-96-5	3.2E+02	PHYSPROP	9.3E-07	2.3E-09	EPI	4.9E-07	PHYSPROP	1.0E+00	CR089	4.0E-02	4.7E-06	WATER9 (U.S. EPA, 2001)	2.6E+03	EPI	3.7E+00	PHYSPROP	6.5E+01	PHYSPROP	6.8E-02	6.8E+00	1.6E+01	6.9E-02	EP1				
Fluvalinate	69463-34-5	5.0E+02	PHYSPROP	5.9E-07	1.5E-08	PHYSPROP	1.0E+02	PHYSPROP	1.6E+02	PHYSPROP	4.1E-01	PHYSPROP	3.0E+00	PHYSPROP	3.5E-01	PHYSPROP	1.0E+00	PHYSPROP	6.8E-01	PHYSPROP	6.8E-01	9.6E+00	2.7E+02	1.0E+00	EP1			
Flufenacet	7013-17-0	3.0E+02	PHYSPROP	1.9E-07	4.8E-09	PHYSPROP	3.1E-06	PHYSPROP	4.1E-01	PHYSPROP	1.2E+00	CR089	4.2E-02	4.2E-06	WATER9 (U.S. EPA, 2001)	1.2E+03	EPI	2.4E+00	PHYSPROP	2.4E+02	PHYSPROP	1.2E+03	4.2E+00	2.7E+03	EP1			
Fluofensafen	72178-02-0	3.0E+02	PHYSPROP	3.1E-11	7.7E-13	PHYSPROP	7.5E-07	PHYSPROP	1.3E+00	CR089	4.2E-02	4.2E-06	WATER9 (U.S. EPA, 2001)	1.3E+03	EPI	2.4E+00	PHYSPROP	3.7E-03	PHYSPROP	1.2E+03	3.0E+01	2.7E+03	EP1					
Fonofos	944-22-9	2.5E+02	PHYSPROP	2.9E-04	7.0E-06	EPI	3.4E-04	PHYSPROP	6.6E-01	PHYSPROP	1.2E+00	CR089	2.4E-02	4.1E-06	WATER9 (U.S. EPA, 2001)	8.6E-02	PHYSPROP	1.1E+00	PHYSPROP	1.6E-01	PHYSPROP	1.2E+00	2.0E+00	2.7E+00	1.0E+00	EP1		
Formaldehyde	50-00-0	3.0E+01	PHYSPROP	1.4E-05	3.4E-07	PHYSPROP	3.9E+03	PHYSPROP	9.2E+01	PHYSPROP	8.8E-01	CR089	1.5E+00	1.7E-05	WATER9 (U.S. EPA, 2001)	1.0E+00	PHYSPROP	3.5E+01	PHYSPROP	9.3E-04	PHYSPROP	1.9E-04	1.8E-03	EP1				
Formic Acid	64-18-6	4.6E+01	PHYSPROP	6.8E-05	1.7E-07	PHYSPROP	8.3E+00	PHYSPROP	1.2E+00	PHYSPROP	9.5E-01	CR089	1.5E-01	1.7E-05	WATER9 (U.S. EPA, 2001)	1.0E+00	PHYSPROP	5.4E-04	PHYSPROP	4.6E-02	PHYSPROP	9.9E-04	1.9E-01	4.6E-03	EP1			
Fosetyl-AL	39148-24-8	3.5E+02	PHYSPROP	1.3E-12	3.2E-14	PHYSPROP	7.5E-11	PHYSPROP	2.2E+02	PHYSPROP			3.8E+02	4.4E-02	WATER9 (U.S. EPA, 2001)	6.5E+03	EPI	2.4E+00	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	4.1E-01	4.1E-01	4.1E-01	EP1		
Furans	-																											
-Dibenzofuran	132-64-9	1.7E+02	PHYSPROP	2.7E-03	6.1E-04	PHYSPROP	3.0E-06	PHYSPROP	6.0E+01	PHYSPROP	1.2E+00	CR089	9.5E-02	7.4E-06	WATER9 (U.S. EPA, 2001)	9.2E+03	EPI	9.2E+03	PHYSPROP	9.2E+03	PHYSPROP	9.2E+03	2.2E+00	2.2E+00	EP1			
-Diphenylbenzofuran	111-18-8	1.0E+04	PHYSPROP	6.5E-06	1.3E-07	PHYSPROP	2.1E-04	PHYSPROP	7.0E+01	PHYSPROP	1.1E+00	CR089	9.5E-02	7.4E-06	WATER9 (U.S. EPA, 2001)	9.2E+03	EPI	9.2E+03	PHYSPROP	9.2E+03	PHYSPROP	9.2E+03	2.2E+00	2.2E+00	EP1			
Glycoside	1071-83-4	1.7E+02	PHYSPROP	6.8E-11	2.1E-12	EPI	9.8E-08	PHYSPROP	1.0E+02	PHYSPROP	1.1E+00	CR089	9.5E-01	1.2E-05	WATER9 (U.S. EPA, 2001)	8.9E+01	EPI	1.3E+00	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	9.8E-02	1.3E+00	EP1			
Guanidine	113-00-9	6.5E+01	PHYSPROP	1.2E+01	3.1E-05	PHYSPROP	8.2E-01	PHYSPROP	1.1E+02	PHYSPROP	9.5E-01	CR089	8.9E+01	9.0E-01	WATER9 (U.S. EPA, 2001)	9.0E+01	EPI	1.4E+00	PHYSPROP	1.0E+00	PHYSPROP	1.0E+00	1.5E+00	1.5E+00	1.5E+00	EP1		
Guanidine Chloride	50-51-1	9.6E+01	PHYSPROP	8.9E-17	2.2E-18	PHYSPROP	1.8E-07	PHYSPROP	1.1E+01	PHYSPROP	9.8E-01	CR089	1.2E+01	1.2E-05	WATER9 (U.S. EPA, 2001)	1.2E+01	EPI	1.6E+00	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	1.3E+00	1.3E+00	1.3E+00	EP1		
Guanidine Nitrate	506-93-4	1.2E+02	PHYSPROP	3.7E-17	9.0E-19	PHYSPROP	3.7E-17	PHYSPROP	1.0E+01	PHYSPROP	9.7E-01	CR089	1.2E+01	1.2E-05	WATER9 (U.S. EPA, 2001)	1.2E+01	EPI	2.3E+00	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	1.3E+00	1.3E+00	1.3E+00	EP1		
Halogenated Heptane	69806-40-2	3.8E+02	PHYSPROP	1.3E-06	3.2E-08	PHYSPROP	1.3E-06	PHYSPROP	1.3E+01	PHYSPROP	1.3E-01	CR089	1.3E-01	1.3E-05	WATER9 (U.S. EPA, 2001)	1.3E+01	EPI	3.2E+00	PHYSPROP	1.3E+00	PHYSPROP	1.3E+00	1.3E+00	1.3E+00	1.3E+00	EP1		
Halogenated Hexadecane	608-73-1	2.9E+02	PHYSPROP	5.1E-06	1.2E-08	PHYSPROP	5.1E-06	PHYSPROP	1.2E+01	PHYSPROP	1.2E-01	CR089	1.2E+01	1.2E-05	WATER9 (U.S. EPA, 2001)	1.2E+01	EPI	2.2E+00	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	1.2E+00	1.2E+00	1.2E+00	EP1		
Halogenated Heptadecane	7747-47-4	2.7E+02	PHYSPROP	5.1E-06	1.2E-08	PHYSPROP	5.1E-06	PHYSPROP	1.2E+01	PHYSPROP	1.2E-01	CR089	1.2E+01	1.2E-05	WATER9 (U.S. EPA, 2001)	1.2E+01	EPI	2.2E+00	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	1.2E+00	1.2E+00	1.2E+00	EP1		
Hexachloroethane	67-72-1	2.4E+02	PHYSPROP	1.6E-01	3.9E-03	EPI	2.1E-01	PHYSPROP	9.5E-02	PHYSPROP	1.0E+01	CR089	2.1E-01	2.1E-05	WATER9 (U.S. EPA, 2001)	2.1E+02	EPI	4.1E+00	PHYSPROP	2.3E+02	PHYSPROP	2.3E+02	2.2E+00	2.2E+00	EP1			
Hexachlorophepane	70-30-0	4.1E+02	PHYSPROP	2.2E-11	5.5E-13	PHYSPROP	1.0E-10	PHYSPROP	1.7E+02	PHYSPROP	1.0E+01	CR089	1.8E-01	1.8E-05	WATER9 (U.S. EPA, 2001)	6.7E+05	EPI	4.8E+00	PHYSPROP	5.0E+00	PHYSPROP	5.0E+00	3.0E+00	3.0E+00	EP1			
Hexachloro-1,3,5-triazine (RDX)	121-82-4	2.2E+02	PHYSPROP	2.2E-11	5.5E-13	PHYSPROP	1.0E-10	PHYSPROP	1.7E+02	PHYSPROP	1.0E+01	CR089	1.8E-01	1.8E-05	WATER9 (U.S. EPA, 2001)	6.7E+05	EPI	4.8E+00	PHYSPROP	5.0E+00	PHYSPROP	5.0E+00	3.0E+00	3.0E+00	EP1			
Hexamethylenediamine, 1,6-	82-06-0	1.7E+02	PHYSPROP	3.0E-05	8.0E-06	PHYSPROP	3																					

Contaminant		Molecular Weight		Volatile Parameters				Melting Point		Density		Diffusivity in Air and Water				Partition Coefficients			Water Solubility		Tapwater Dermal Parameters							
Analyte	CAS No.	MW	MW Ref	H ⁺	HLC (atm·m ³ /mole)	H ⁺ and HLC Ref	VP mmHg	VP Ref	MP C	MP Ref	Density (g/cm ³)	Density Ref	Diffus. (cm ² /s)	Diffus. (cm ² /s)	D _a and D _w Ref	K _d (L/kg)	K _d Ref	K _{oc} (L/kg)	K _{oc} Ref	log K _{ow} (unitless)	log K _{ow} Ref	S (mg/L)	S Ref	B (unitless)	T _{event} (hr/event)	t [*] (hr)	K _p (cm/hr)	K _p Ref
Merceptobenzothiazole, 2-	149-30-4	1.7E+02	EPI	1.5E-05	3.6E-08		4.6E-04	EPI	1.8E+02	EPI	1.4E+00	CRC89	4.7E-02	8.7E-06	WATER9 (U.S. EPA, 2001)	1.4E+03	EPI	2.4E+00	EPI	1.2E+02	EPI	3.6E-02	9.1E-01	2.2E+00	7.3E-03	EPI		
Mercury Compounds	7487-94-7	2.7E+02	PHYSPROP																									
-Mercuric Chloride (and other Mercury salts)																												
-Mercury (elemental)	7439-97-6	2.0E+02	PHYSPROP	3.5E-01	8.6E-03	PHYSPROP VP/S	2.0E-03	PHYSPROP	3.0E+01	PHYSPROP	1.4E+01	CRC89	3.1E-02	6.3E-06	WATER9 (U.S. EPA, 2001)	5.2E+01	SSL	6.2E-01	PHYSPROP	6.0E-02	PHYSPROP	5.4E-03	1.4E+00	3.4E+00	1.0E-03	RAGSE		
-Methyl Mercury	22967-92-6	2.2E+02	ChemID																									
-Phenylmercuric Acetate	62-38-4	3.4E+02	PHYSPROP	2.3E-01	5.7E-10	EPI	6.0E-09	PHYSPROP	1.5E+02	PHYSPROP	3.9E+02	4.6E-06	WATER9 (U.S. EPA, 2001)	5.6E+01		7.1E-01	PHYSPROP	4.4E+03	PHYSPROP	4.2E-04	8.1E+00	1.9E+01	1.0E-03	RAGSE				
Merphos	150-50-5	3.0E+02	PHYSPROP	9.3E-04	2.3E-05		2.0E-05	PHYSPROP	1.0E+02	PHYSPROP	1.0E+00	CRC89	2.0E-02	5.0E-06	WATER9 (U.S. EPA, 2001)	4.9E+04		7.7E+00	PHYSPROP	3.5E-03	PHYSPROP	1.1E+00	6.1E+00	2.4E+01	1.7E-01	EPI		
Merphos Oxide	78-48-4	3.1E+02	PHYSPROP	1.2E-02	2.9E-07		2.0E-05	PHYSPROP	5.3E-01	PHYSPROP	2.5E+01	CRC89	2.0E-02	5.0E-06	WATER9 (U.S. EPA, 2001)	2.4E+03		5.7E+00	PHYSPROP	3.5E-03	PHYSPROP	1.2E+00	6.7E+00	2.4E+01	1.7E-01	EPI		
Merphos, 1,1'-Biphenyl-4-ol	57-59-1	3.5E+02	PHYSPROP	1.2E-02	3.0E-05		2.0E-05	PHYSPROP	5.3E-01	PHYSPROP	1.0E+00	CRC89	1.9E-02	4.9E-06	WATER9 (U.S. EPA, 2001)	3.2E+01		5.7E+00	PHYSPROP	3.5E-03	PHYSPROP	1.2E+00	6.7E+00	2.4E+01	1.7E-01	EPI		
Methacrylonitrile	126-88-7	6.7E+01	PHYSPROP	1.0E-02	2.5E-04		1.7E+01	PHYSPROP	3.6E+01	PHYSPROP	9.0E-01	CRC89	9.6E-02	1.1E-05	WATER9 (U.S. EPA, 2001)	1.3E+01		6.8E-01	PHYSPROP	2.5E+04	PHYSPROP	5.6E-03	2.5E-01	6.0E-01	1.9E-03	EPI		
Methamidophos	10265-92-6	1.4E+02	PHYSPROP	3.5E-08	8.7E-10		3.5E-05	PHYSPROP	4.6E-01	PHYSPROP	1.3E+00	CRC89	6.0E-02	9.2E-06	WATER9 (U.S. EPA, 2001)	5.4E+00		8.0E-01	PHYSPROP	1.0E+00	PHYSPROP	3.4E-04	6.5E-01	1.6E+01	7.4E-05	EPI		
Methanol	67-56-1	3.2E+01	PHYSPROP	1.9E-02	4.6E-06		1.3E+02	PHYSPROP	7.9E-01	PHYSPROP	1.6E-01	CRC89	1.0E+00	1.7E-05	WATER9 (U.S. EPA, 2001)	1.0E+00		7.7E-01	PHYSPROP	1.0E+00	PHYSPROP	6.9E-04	3.8E-01	3.2E-01	1.9E-03	EPI		
Methathion	95-37-8	3.0E+02	PHYSPROP	2.9E-07	7.2E-09	EPI	3.4E-06	PHYSPROP	2.9E+01	PHYSPROP	2.1E+01	CRC89	4.1E-02	9.4E-06	WATER9 (U.S. EPA, 2001)	2.2E+01		2.2E+00	PHYSPROP	6.1E-03	5.2E+00	1.9E-01	1.7E-04	EPI				
Methomyl	16752-77-5	1.6E+02	PHYSPROP	8.1E-10	2.0E-11		5.4E-06	PHYSPROP	7.8E-01	PHYSPROP	1.3E+00	CRC89	4.8E-02	8.4E-06	WATER9 (U.S. EPA, 2001)	1.0E+01		6.0E-01	PHYSPROP	5.6E+00	PHYSPROP	4.2E-04	8.1E+00	1.9E+01	6.0E-03	EPI		
Methoxyisotiazolinone, 2-	99-59-2	1.7E+02	PHYSPROP	5.1E-07	1.3E-08		3.2E-04	PHYSPROP	1.2E+00	PHYSPROP	9.4E-01	CRC89	4.3E-02	7.9E-06	WATER9 (U.S. EPA, 2001)	7.1E-01		1.1E+00	PHYSPROP	1.2E+00	PHYSPROP	8.4E-03	2.2E+00	1.7E-01	1.7E-03	EPI		
Methoxychlor	72-43-5	3.0E+02	PHYSPROP	8.3E-06	2.0E-07		2.6E-05	PHYSPROP	8.7E-01	PHYSPROP	1.4E+00	CRC89	2.2E+00	5.8E-06	WATER9 (U.S. EPA, 2001)	2.7E+00		5.1E+00	PHYSPROP	1.0E+01	PHYSPROP	9.1E+00	2.2E+00	1.7E-01	1.7E-03	EPI		
Methoxychlor Acetate, 2-	110-61-6	1.6E+02	PHYSPROP	8.3E-06	2.0E-07		3.0E-05	PHYSPROP	8.7E-01	PHYSPROP	1.4E+00	CRC89	2.2E+00	5.8E-06	WATER9 (U.S. EPA, 2001)	2.7E+00		5.1E+00	PHYSPROP	1.0E+01	PHYSPROP	9.1E+00	2.2E+00	1.7E-01	1.7E-03	EPI		
Methoxychlor, 2-	109-86-4	1.6E+02	PHYSPROP	1.4E-05	3.3E-07		3.0E-05	PHYSPROP	9.5E-01	PHYSPROP	9.6E-01	CRC89	2.3E+00	5.9E-06	WATER9 (U.S. EPA, 2001)	2.8E+00		5.2E+00	PHYSPROP	1.0E+01	PHYSPROP	9.5E-01	2.2E+00	1.7E-01	1.7E-03	EPI		
Methyl Acetate	79-20-9	7.4E+01	PHYSPROP	4.7E-03	1.2E-04		2.2E-02	PHYSPROP	8.8E+01	PHYSPROP	9.3E-01	CRC89	9.6E-02	1.1E-05	WATER9 (U.S. EPA, 2001)	3.1E+00		1.8E-01	PHYSPROP	2.4E+00	PHYSPROP	6.2E-03	1.7E-01	9.6E-01	1.9E-03	EPI		
Methyl Acetate	96-33-3	8.6E+01	PHYSPROP	8.1E-13	2.0E-04		4.8E-06	PHYSPROP	8.7E-01	PHYSPROP	9.5E-01	CRC89	8.0E-02	1.0E-06	WATER9 (U.S. EPA, 2001)	5.8E+00		8.0E-01	PHYSPROP	4.9E-04	PHYSPROP	6.2E-03	3.2E-01	7.7E-01	1.8E-03	EPI		
Methyl Ethyl Ketone (2-Butanone)	78-93-3	7.2E+01	PHYSPROP	2.3E-03	5.7E-05		1.9E+01	PHYSPROP	9.1E+01	PHYSPROP	8.0E-01	CRC89	9.1E-02	1.0E-06	WATER9 (U.S. EPA, 2001)	4.5E-01		7.9E-01	PHYSPROP	2.2E+00	PHYSPROP	3.1E-03	2.7E-01	4.6E-01	9.6E-03	EPI		
Methyl Hydrazine	60-34-4	4.6E+01	PHYSPROP	1.2E-04	3.0E-06		2.0E-02	PHYSPROP	5.0E+01	PHYSPROP	5.2E+01	PHYSPROP	8.7E-01	LANGE	1.3E-01	1.4E-05	WATER9 (U.S. EPA, 2001)	1.3E+01		1.1E-01	PHYSPROP	1.0E+00	PHYSPROP	4.5E-04	1.9E-01	1.7E-01	1.7E-04	EPI
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	1.0E+02	PHYSPROP	5.6E-03	1.4E-04		3.8E-02	PHYSPROP	4.8E-01	PHYSPROP	8.0E-01	CRC89	1.0E-02	8.3E-06	WATER9 (U.S. EPA, 2001)	1.3E+01		1.3E+00	PHYSPROP	1.0E+00	PHYSPROP	1.2E-02	9.2E-01	3.2E-03	1.7E-03	EPI		
Methyl Isocyanate	62-83-9	5.7E+01	PHYSPROP	5.7E-03	1.4E-04		3.8E-02	PHYSPROP	4.8E-01	PHYSPROP	8.5E-01	CRC89	1.2E-02	8.5E-06	WATER9 (U.S. EPA, 2001)	4.0E-01		1.3E+00	PHYSPROP	1.0E+00	PHYSPROP	1.2E-02	9.2E-01	3.2E-03	1.7E-03	EPI		
Methyl Isopropylate	95-55-0	1.0E+02	PHYSPROP	8.6E-03	2.0E-04		3.0E-02	PHYSPROP	6.0E+01	PHYSPROP	6.0E+01	PHYSPROP	9.1E-02	9.2E-06	WATER9 (U.S. EPA, 2001)	9.1E-02		1.0E+00	PHYSPROP	1.0E+00	PHYSPROP	1.2E-02	9.2E-01	3.6E-03	1.7E-03	EPI		
Methyl Methanesulfonate	66-27-3	1.1E+02	PHYSPROP	1.6E-04	3.8E-05		2.0E-02	PHYSPROP	5.0E+01	PHYSPROP	5.0E+01	PHYSPROP	7.9E-02	9.1E-06	WATER9 (U.S. EPA, 2001)	2.1E+02		1.1E+00	PHYSPROP	1.0E+00	PHYSPROP	1.2E-02	9.2E-01	3.6E-03	1.7E-03	EPI		
Methyl-tert-Butyl Ether (MTBE)	1634-04-4	8.8E+01	PHYSPROP	2.4E-04	5.9E-05		1.8E-02	PHYSPROP	4.2E+01	PHYSPROP	4.2E+01	PHYSPROP	7.9E-02	8.6E-06	WATER9 (U.S. EPA, 2001)	1.2E+01		9.4E-01	PHYSPROP	6.1E+00	PHYSPROP	7.9E-03	3.1E-01	9.7E-01	2.1E-03	EPI		
Methyl-tert-benzylbenzodichloroethane, 2-	615-45-2	2.0E+02	PHYSPROP	2.6E-16	6.4E-18		2.4E-02	PHYSPROP	4.1E-12	PHYSPROP	5.3E+00	PHYSPROP	2.4E+02	2.4E-02	PHYSPROP	6.0E-02		5.6E-02	PHYSPROP	6.0E-02	PHYSPROP	2.9E-05	1.3E-00	3.1E-00	1.4E-03	EPI		
Methyl-2-Pentanone	108-11-2	1.0E+02	PHYSPROP	8.6E-03	2.0E-04		3.0E-02	PHYSPROP	4.8E-01	PHYSPROP	4.8E-01	PHYSPROP	8.0E-02	8.3E-06	WATER9 (U.S. EPA, 2001)	2.0E+01		1.0E+00	PHYSPROP	1.0E+00	PHYSPROP	1.2E-02	9.2E-01	3.2E-03	1.7E-03	EPI		
Methyl-2-Pentanone, 2-	108-11-2	1.0E+02	PHYSPROP	3.4E-07	8.3E-09		3.0E-02	PHYSPROP	4.8E-01	PHYSPROP	4.8E-01	PHYSPROP	8.0E-02	8.3E-06	WATER9 (U.S. EPA, 2001)	2.0E+01		1.0E+00	PHYSPROP	1.0E+00	PHYSPROP	1.2E-02	9.2E-01	3.2E-03	1.7E-03	EPI		
Methylbenzenebenzodioxepane, 4,4'	107-14-4	2.1E+02	PHYSPROP	1.7E-02	4.1E-11		2.0E-02	PHYSPROP	2.0E-07	PHYSPROP	9.0E-01	PHYSPROP	9.0E-02	9.5E-06	WATER9 (U.S. EPA, 2001)	4.7E-03		3.8E-01	PHYSPROP	4.4E-03	PHYSPROP	5.7E-03	2.0E+00	4.8E-02	9.4E-03	RAGSE		
Methylbenzenesemicarbazide, 4,4'	101-77-9	2.0E+02	PHYSPROP	2.2E-09	5.3E-11		2.0E-07	PHYSPROP	3.8E-01	PHYSPROP	3.8E-01	PHYSPROP	9.5E-02	6.5E-06	WATER9 (U.S. EPA, 2001)	2.1E+03		5.6E-02	PHYSPROP	5.6E-02	PHYSPROP	2.1E+03	3.2E-01	1.4E-03	1.4E-03	EPI		
Methylbenzylidene Diisocyanate	101-68-8	2.5E+02	PHYSPROP	3.7E-06	9.0E-07		3.8E-01	PHYSPROP	5.0E-02	PHYSPROP	5.0E-02	PHYSPROP	9.1E-02	6.2E-06	WATER9 (U.S. EPA, 2001)	2.8E+01		5.2E+00	PHYSPROP	5.2E+00	PHYSPROP	1.5E+00	2.7E-01	3.2E-01	1.4E-03	EPI		
Methylenediamine, Alpha-	98-83-4	2.1E+02	PHYSPROP	1.0E-05	2.6E-06		2.0E-02	PHYSPROP	1.0E-01	PHYSPROP	1.0E-01	PHYSPROP	1.9E+00	2.0E+00	PHYSPROP	2.0E+00		1.3E+00	PHYSPROP	1.3E+00	PHYSPROP	2.7E-04	2.7E-01	3.6E-01	1.4E-03	EPI		
Methylenedioxides	102-04-8	2.0E+02	PHYSPROP	1.0E-05	2.6E-06		2.0E-02	PHYSPROP	1.0E-01	PHYSPROP	1.0E-01	PHYSPROP	1.9E+00	2.0E+00	PHYSPROP	2.0E+00		1.3E+00	PHYSPROP	1.3E+00	PHYSPROP	2.7E-04	2.7E-01	3.6E-01	1.4E-03	EPI		
Methylenedioxides	102-04-8	2.0E+02	PHYSPROP	1.0E-05	2.6E-06		2.0E-02	PHYSPROP	1.0E-01	PHYSPROP	1.0E-01	PHYSPROP	1.9E+00	2.0E+00	PHYSPROP	2.0E+00		1.3E+00	PHYSPROP	1.3E+00	PHYSPROP	2.7E-04	2.7E-01	3.6E-01	1.4E-03	EPI		
Methylenedioxides	10																											

Contaminant		Molecular Weight		Volatile Parameters				Melting Point		Density		Diffusivity in Air and Water				Partition Coefficients				Water Solubility		Tapwater Dermal Parameters					
Analyte	CAS No.	MW	MW Ref	H ⁺	HLC (atm ⁻¹ /mole)	H ⁺ and HLC Ref	VP mmHg	V _P Ref	MP C	MP Ref	Density (g/cm ³)	Density Ref	Diffus. (cm ² /s)	Diffus. Ref	D _a and D _w Ref	K _d (L/kg)	K _d Ref	K _{oc} (unitless)	log K _{ow} Ref	S (mg/L)	B (unitless)	T _{event} (hr/event)	t [*] (hr)	K _p (cm/hr)	K _p Ref		
1-Polychlorinated Biphenyls (high risk)	1336-36-3	2.9E+02	PHYSPROP	1.7E-02	4.2E-04	PHYSPROP	4.9E-04	PHYSPROP	1.9E+02	EPI	1.4E+00	HSDB	2.4E+00	6.3E+06	WATER9 (U.S. EPA, 2001)	7.3E+04	EPI	7.1E+00	PHYSPROP	7.0E+01	4.5E+00	1.9E+01	5.5E+02	EPI			
1-Polychlorinated Biphenyls (low risk)	1336-36-3	2.9E+02	PHYSPROP	1.7E-02	4.2E-04	PHYSPROP	4.9E-04	PHYSPROP	1.2E+02	EPI	1.4E+00	HSDB	4.0E+00	6.3E+06	WATER9 (U.S. EPA, 2001)	7.3E+04	EPI	7.1E+00	PHYSPROP	8.0E+01	4.5E+00	1.9E+01	5.5E+02	EPI			
1-Polychlorinated Biphenyls (lowest risk)	1336-36-3	2.9E+02	PHYSPROP	1.7E-02	4.2E-04	PHYSPROP	4.9E-04	PHYSPROP	1.2E+02	EPI	1.4E+00	HSDB	3.9E+00	6.3E+06	WATER9 (U.S. EPA, 2001)	7.3E+04	EPI	7.1E+00	PHYSPROP	8.0E+01	4.5E+00	1.9E+01	5.5E+02	EPI			
Tetrachlorobiphenyl, 3,3,4,4- (PCB 77)	32598-13-3	2.9E+02	PHYSPROP	3.8E-04	9.4E-06	PHYSPROP	1.0E-05	PHYSPROP	1.8E+02	CRC89	1.4E+00	LookChem	4.9E-02	5.0E-06	WATER9 (U.S. EPA, 2001)	7.3E+04	EPI	7.1E+00	PHYSPROP	5.0E+01	4.5E+00	2.0E+01	9.2E+01	EPI			
Tetrachlorobiphenyl, 3,4,4'- (PCB 81)	70362-50-3	2.9E+02	EPI	9.1E-03	2.2E-04	EPI	8.5E-06	EPI	1.2E+02	EPI	1.4E+00	LookChem	4.9E-02	6.3E+06	WATER9 (U.S. EPA, 2001)	7.3E+04	EPI	7.1E+00	PHYSPROP	3.8E+00	4.5E+00	2.0E+01	5.8E+01	EPI			
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	5.1E+02	EPI	5.4E-10	1.3E-11	EPI	5.4E-13	EPI	2.5E+02	EPI	1.0E+01	HSDB	3.0E+02	3.5E+06	WATER9 (U.S. EPA, 2001)	1.2E+10	EPI	1.0E+01	PHYSPROP	1.6E+02	7.8E+01	3.7E+02	1.9E+02	EPI			
Poly(nuclear Aromatic Hydrocarbons (PAHs)																											
-Acenaphthene	83-32-9	1.5E+02	PHYSPROP	7.5E-03	1.8E-04	PHYSPROP	2.2E-03	PHYSPROP	9.3E-04	PHYSPROP	1.2E+00	HSDB	1.2E+00	CRCS9	5.1E+00	6.3E+06	WATER9 (U.S. EPA, 2001)	5.0E+03	EPI	3.8E+00	PHYSPROP	3.6E+00	4.5E+00	1.8E+00	8.6E+02	EPI	
-Acenaphthylene	120-13-7	1.5E+02	PHYSPROP	2.2E-03	5.6E-05	PHYSPROP	3.8E-06	PHYSPROP	1.2E+00	PHYSPROP	1.4E+00	HSDB	4.2E+00	7.7E-06	WATER9 (U.S. EPA, 2001)	7.3E+04	EPI	7.1E+00	PHYSPROP	3.6E+00	4.5E+00	1.4E+00	1.9E+01	EPI			
Benzofluoranthene	58-55-3	2.3E+02	PHYSPROP	4.9E-04	1.2E-05	PHYSPROP	2.1E-05	PHYSPROP	4.4E+01	PHYSPROP	1.3E+00	PubChem	4.9E-02	6.3E+06	WATER9 (U.S. EPA, 2001)	1.0E+05	EPI	9.8E+00	PHYSPROP	2.5E+00	2.0E+00	8.5E+00	5.5E+01	EPI			
Benzofluoranthene, Beta-	205-82-3	2.5E+02	PHYSPROP	8.3E-06	2.0E-07	PHYSPROP	2.6E-08	PHYSPROP	1.7E+05	PHYSPROP	1.8E+00	HSDB	4.8E-02	5.6E-06	WATER9 (U.S. EPA, 2001)	6.0E+05	EPI	6.1E+00	PHYSPROP	4.2E+00	2.7E+00	1.2E+01	6.9E+01	EPI			
Benzofluoranthene, Gamma-	50-32-8	2.5E+02	PHYSPROP	1.9E-05	4.6E-07	PHYSPROP	5.5E-09	PHYSPROP	1.8E+00	PHYSPROP	4.9E-02	PHYSPROP	5.6E-02	6.3E+06	WATER9 (U.S. EPA, 2001)	5.9E+05	EPI	6.1E+00	PHYSPROP	4.4E+00	2.7E+00	1.1E+01	7.1E+01	EPI			
Benzofluoranthene	205-99-2	2.5E+02	PHYSPROP	2.7E-05	6.6E-07	PHYSPROP	5.0E-07	PHYSPROP	1.7E+05	PHYSPROP	1.8E+00	HSDB	4.8E-02	7.7E-06	WATER9 (U.S. EPA, 2001)	6.0E+05	EPI	6.1E+00	PHYSPROP	1.5E+03	2.7E+00	1.1E+01	2.0E+01	EPI			
Benzofluoranthene	207-08-9	2.5E+02	PHYSPROP	2.4E-05	5.8E-07	PHYSPROP	9.7E-10	PHYSPROP	2.2E+02	PHYSPROP	1.1E+00	CRCS9	4.8E-02	5.6E-06	WATER9 (U.S. EPA, 2001)	2.5E+03	EPI	4.8E-02	PHYSPROP	4.2E+00	2.7E+00	1.2E+01	6.9E+01	EPI			
Chloronaphthalene, Beta-	91-58-7	1.6E+02	PHYSPROP	1.3E-02	3.2E-04	PHYSPROP	1.2E+02	PHYSPROP	6.1E+01	PHYSPROP	1.1E+00	CRCS9	4.5E-02	6.7E-06	WATER9 (U.S. EPA, 2001)	3.9E+05	EPI	3.9E+00	PHYSPROP	3.7E+01	3.0E+00	8.6E+00	5.0E+01	EPI			
Chrysene	218-01-9	3.3E+02	PHYSPROP	1.2E-05	3.0E-06	PHYSPROP	6.2E-09	PHYSPROP	2.6E+02	PHYSPROP	1.3E+00	HSDB	3.0E+02	6.7E-06	WATER9 (U.S. EPA, 2001)	1.3E+05	EPI	5.8E+00	PHYSPROP	2.0E+00	2.0E+00	8.5E+00	1.0E+01	EPI			
Diendinafluoranthene	53-31-8	2.5E+02	PHYSPROP	1.2E-05	3.0E-06	PHYSPROP	6.2E-09	PHYSPROP	1.2E+02	PHYSPROP	1.4E+00	HSDB	3.0E+02	7.0E-06	WATER9 (U.S. EPA, 2001)	4.2E+05	EPI	4.2E+00	PHYSPROP	2.8E+01	2.5E+00	1.2E+01	4.2E+00	EPI			
Diendinafluoranthene	122-65-4	3.0E+02	PHYSPROP	5.8E-05	1.4E-07	PHYSPROP	5.8E-09	PHYSPROP	1.2E+02	PHYSPROP	1.4E+00	HSDB	3.0E+02	7.0E-06	WATER9 (U.S. EPA, 2001)	6.5E+05	EPI	6.5E+00	PHYSPROP	2.8E+01	2.5E+00	1.2E+01	4.2E+00	EPI			
Dimethylbenz(a)anthracene, 7,12-	57-37-6	2.6E+02	PHYSPROP	1.5E-04	3.8E-06	PHYSPROP	6.8E-07	PHYSPROP	1.2E+02	PHYSPROP	1.4E+00	HSDB	3.0E+02	5.5E-06	WATER9 (U.S. EPA, 2001)	4.9E+05	EPI	5.8E+00	PHYSPROP	2.5E+00	2.0E+00	9.1E+00	1.0E+01	EPI			
Fluoranthene	206-44-0	2.0E+02	PHYSPROP	3.6E-04	8.9E-06	PHYSPROP	9.2E-06	PHYSPROP	1.1E+02	PHYSPROP	1.4E+00	HSDB	3.0E+02	5.5E-06	WATER9 (U.S. EPA, 2001)	5.4E+05	EPI	5.2E+00	PHYSPROP	1.7E+00	1.4E+00	5.7E+00	3.1E+01	EPI			
Fluorene	86-73-7	1.7E+02	PHYSPROP	3.9E-05	9.6E-05	PHYSPROP	6.0E-06	PHYSPROP	1.2E+02	PHYSPROP	1.4E+00	HSDB	3.0E+02	7.9E-06	WATER9 (U.S. EPA, 2001)	9.2E+03	EPI	4.2E+00	PHYSPROP	1.7E+00	9.0E-01	9.0E-01	1.0E+00	EPI			
Indeno[1,2,3-cd]perylene	193-39-5	2.8E+02	PHYSPROP	1.4E-05	3.5E-07	PHYSPROP	1.3E-10	PHYSPROP	1.6E+02	PHYSPROP	1.4E+00	HSDB	3.0E+02	6.0E-06	WATER9 (U.S. EPA, 2001)	2.0E+06	EPI	6.7E+00	PHYSPROP	1.9E+00	1.2E+00	1.2E+00	1.2E+00	EPI			
Methylphenanthrene, 1-	90-12-0	1.4E+02	PHYSPROP	2.1E-05	5.1E-04	PHYSPROP	6.7E-02	PHYSPROP	3.0E+02	PHYSPROP	1.0E+00	HSDB	3.0E+02	7.8E-06	WATER9 (U.S. EPA, 2001)	2.5E+03	EPI	4.3E+00	PHYSPROP	1.6E+00	9.3E+00	1.0E+00	1.0E+00	EPI			
Methylphenanthrene, 2-	91-57-8	1.4E+02	PHYSPROP	2.1E-05	5.1E-04	PHYSPROP	6.7E-02	PHYSPROP	3.0E+02	PHYSPROP	1.0E+00	HSDB	3.0E+02	7.8E-06	WATER9 (U.S. EPA, 2001)	2.5E+03	EPI	4.3E+00	PHYSPROP	1.6E+00	9.3E+00	1.0E+00	1.0E+00	EPI			
Naphthalene	91-05-8	1.0E+02	PHYSPROP	4.8E-02	1.0E-04	PHYSPROP	8.5E-05	PHYSPROP	1.0E+02	PHYSPROP	1.0E+00	HSDB	3.0E+02	6.0E-06	WATER9 (U.S. EPA, 2001)	1.3E+05	EPI	1.0E+00	PHYSPROP	2.0E+00	1.3E+00	3.7E+00	4.7E+02	EPI			
Naphthalene, 4-	57836-02-4	2.5E+02	PHYSPROP	1.0E-05	2.0E-06	PHYSPROP	5.5E-08	PHYSPROP	1.1E+02	PHYSPROP	1.0E+00	HSDB	3.0E+02	7.2E-06	WATER9 (U.S. EPA, 2001)	8.8E+04	EPI	8.8E+00	PHYSPROP	6.5E+01	1.0E+00	1.0E+00	1.0E+00	EPI			
Pyrene	129-00-0	2.0E+02	PHYSPROP	4.9E-04	1.2E-05	PHYSPROP	1.5E-06	PHYSPROP	1.3E+02	PHYSPROP	1.4E+00	HSDB	3.0E+02	7.2E-06	WATER9 (U.S. EPA, 2001)	1.4E+05	EPI	4.9E+00	PHYSPROP	1.1E+00	1.4E+00	5.5E+00	2.0E+01	EPI			
Potassium Perfluorobutane Sulfonate	29240-93-4	3.4E+02	EPI	3.6E-11	8.8E-13	CHR Australia	9.2E-08	CHR Australia	1.7E+02	PHYSPROP	9.1E-01	HSDB	2.2E+02	5.5E-06	WATER9 (U.S. EPA, 2001)	2.4E+03	EPI	4.1E+00	PHYSPROP	3.4E+01	4.5E+00	1.0E+00	4.6E+03	EPI			
Prochlor	26399-36-3	3.5E+02	PHYSPROP	6.7E-07	1.8E-04	PHYSPROP	6.3E-06	PHYSPROP	1.2E+00	HSDB	2.2E+02	5.5E-06	WATER9 (U.S. EPA, 2001)	3.1E+04	EPI	5.6E+00	PHYSPROP	1.0E+00	3.0E+00	3.0E+00	3.0E+00	EPI					
Promethrin	1610-18-0	2.3E+02	PHYSPROP	3.7E-08	9.1E-10	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	PHYSPROP	1.2E+00	HSDB	2.2E+02	6.2E-06	WATER9 (U.S. EPA, 2001)	5.1E+02	EPI	4.2E+00	PHYSPROP	3.0E+00	4.5E+00	1.7E+00	1.2E+01	EPI			
Propenyl	115-07-1	1.4E+02	PHYSPROP	4.3E-01	1.0E-02	PHYSPROP	3.4E-03	PHYSPROP	1.2E+00	PHYSPROP	1.5E+00	HSDB	2.2E+02	7.2E-06	WATER9 (U.S. EPA, 2001)	8.1E+02	EPI	3.7E+00	PHYSPROP	4.0E+00	1.0E+00	1.2E+00	1.2E+00	EPI			
Propenyl Glycol	57-55-6	7.6E+01	PHYSPROP	5.3E-07	1.3E-08	PHYSPROP	1.0E-05	PHYSPROP	1.3E+01	PHYSPROP	1.0E+00	HSDB	2.2E+02	7.2E-06	WATER9 (U.S. EPA, 2001)	1.0E+00	EPI	4.9E-02	PHYSPROP	4.8E-02	1.0E-02	1.0E-02	1.0E-02	EPI			
Propenyl Glycol Dinitrate	6423-43-4	1.7E+02	PHYSPROP	3.9E-05	9.4E-07	PHYSPROP	3.8E-05	PHYSPROP	1.3E+01	PHYSPROP	1.0E+00	HSDB	2.2E+02	7.2E-06	WATER9 (U.S. EPA, 2001)	6.1E+01	EPI	3.9E-02	PHYSPROP	4.8E-02	1.0E-02	1.0E-02	1.0E-02	RAGSE			
Propenyl Glycol Monomethyl Ether	107-98-2	1.7E+02	PHYSPROP	3.8E-05	9.4E-07	PHYSPROP	3.8E-05	PHYSPROP	1.3E+01	PHYSPROP	1.0E+00	HSDB	2.2E+02	7.2E-06	WATER9 (U.S. EPA, 2001)	1.0E+00	EPI	4.9E-02	PHYSPROP	4.8E-02	1.0E-02	1.0E-02	1.0E-02	RAGSE			
Propylene Oxide	75-56-9	5.8E+01	PHYSPROP	2.8E-03	7.0E-05	PHYSPROP	5.4E+00	PHYSPROP	1.1E+02	PHYSPROP	8.3E-01	PERRY	1.1E-01	2.0E-05	WATER9 (U.S. EPA, 2001)	5.2E+00	PERRY	3.0E-02	PHYSPROP	5.9E-05	2.2E-01	2.2E-01	2.2E-01	PERRY			
Propyzamide	23950-58-6	2.6E+02	PHYSPROP	4.0E-07	9.8E-09	PHYSPROP	1.0E-06	PHYSPROP	1.6E+02	PHYSPROP	1.0E+00	HSDB	2.2E+02	7.2E-06	WATER9 (U.S. EPA, 2001)	4.5E+00	EPI	3.4E+00	PHYSPROP	4.5E+00	1.0E+00	1.0E+00	1.0E+00	EPI			
Quinolines	125-92-9	3.2E+02	PHYSPROP	9.9E-25	1.2E-06	PHYSPROP	2.2E-06	PHYSPROP	1.2E+02	PHYSPROP	1.1E+00	HSDB	2.2E+02	4.5E-06	WATER9 (U.S. EPA, 2001)	4.0E+03	EPI	4.4E-02	PHYSPROP	2.9E+00	2.0E+00	2.0E+00	2				

Contaminant		Molecular Weight		Volatility Parameters				Melting Point		Density		Diffusivity in Air and Water				Partition Coefficients				Water Solubility		Tapwater Dermal Parameters					
Analyte	CAS No.	MW	MW Ref.	H ⁺	HLC (atm ⁻¹ /mole)	H ⁺ and HLC Ref	VP mmHg	VP Ref.	MP C	MW Ref.	Density (g/cm ³)	Density Ref.	Diffus. (cm ² /s)	Diffus. Ref.	D _a and D _w Ref.	K _d (L/kg)	K _d Ref.	K _{oc} (L/kg)	K _{oc} Ref.	log K _{ow} (unitless)	log K _{ow} Ref.	S (mg/L)	B (unitless)	T [°] (hr/event)	I [°] (hr)	K _p (cm/hr)	K _p Ref.
Thiobaculose-methyl	79277-27-3	3.9E+03	PHYSPROP	1.7E-12	4.1E-14	PHYSPROP	1.3E-10	PHYSPROP	1.8E+02	PHYSPROP	3.6E+00	4.2E-06	WATER9 (U.S. EPA, 2001)	5.1E+01	EPI	1.6E+00	PHYSPROP	2.2E+03	PHYSPROP	8.6E-04	3.7E-01	1.1E-04	EPI				
Thiobenzal	52263-77-6	3.9E+02	PHYSPROP	1.1E-05	2.7E-07	EPI	2.2E-05	PHYSPROP	1.2E+00	PHYSPROP	2.2E+00	2.0E-06	WATER9 (U.S. EPA, 2001)	1.2E+03	EPI	3.4E+00	PHYSPROP	8.6E-02	PHYSPROP	8.3E-02	2.5E+00	7.0E+00	1.0E-02	RAGSE	EPI		
Thiodiglycol	111-48-8	1.2E+02	PHYSPROP	7.6E-08	1.9E-09	PHYSPROP	3.1E+01	PHYSPROP	1.2E+00	CR289	1.2E+00	9.4E-06	WATER9 (U.S. EPA, 2001)	1.0E+02	PHYSPROP	5.2E+00	PHYSPROP	5.2E+00	PHYSPROP	5.9E-03	2.3E+00	5.6E+00	9.9E-04	EPI			
Thiofuran	38196-18-4	2.2E+02	PHYSPROP	3.8E-07	9.4E-09	EPI	1.7E-04	PHYSPROP	1.7E+01	PHYSPROP	1.3E+00	PERRY	5.2E+02	6.1E-06	WATER9 (U.S. EPA, 2001)	7.2E+01	EPI	2.2E+00	PHYSPROP	3.6E+02	1.8E+00	4.2E+00	6.3E-03	EPI			
Thiophanate, Methyl	23564-05-9	3.4E+02	PHYSPROP	4.9E-07	1.2E-09	EPI	7.1E-06	PHYSPROP	1.7E+02	EPI	3.9E-02	4.5E-06	WATER9 (U.S. EPA, 2001)	3.3E+02	EPI	1.4E+00	PHYSPROP	1.1E+02	PHYSPROP	8.7E+00	2.1E+01	1.6E-04	EPI				
Thiram	137-26-8	2.4E+02	PHYSPROP	7.4E-08	1.8E-07	EPI	1.7E+00	PHYSPROP	1.6E+02	PHYSPROP	2.6E+02	6.6E-06	WATER9 (U.S. EPA, 2001)	6.1E+02	PHYSPROP	5.9E-03	PHYSPROP	3.0E+01	PHYSPROP	5.9E-03	2.3E+00	5.6E+00	9.9E-04	EPI			
Tin	7440-31-5	1.2E+02	CRC89	0.0E+00	NIOSH	1.3E+01	CR289	7.3E+00	CR289	3.8E+00	9.1E-06	WATER9 (U.S. EPA, 2001)	2.5E+02	BAES	4.2E-03	4.9E-01	1.2E+00	1.0E-04	RAGSE								
Titanium Tetrachloride	7550-45-0	1.9E+02	CRC89	2.7E-01	8.6E-03	PHYSPROP	1.0E+01	ATSDR Profile	1.7E+00	CR289	1.7E+00	9.0E-06	WATER9 (U.S. EPA, 2001)	2.3E+02	EPI	2.7E+00	PHYSPROP	3.5E+02	PHYSPROP	5.3E-03	1.2E+00	2.9E+00	1.0E-03	RAGSE	EPI		
Toluene	100-41-7	9.2E+01	PHYSPROP	4.5E-04	1.1E-05	EPI	6.0E-03	PHYSPROP	1.2E+01	PHYSPROP	6.0E-01	CR289	7.4E-03	9.0E-06	WATER9 (U.S. EPA, 2001)	7.4E-03	EPI	3.7E+00	EPI	3.8E+00	9.9E-01	4.1E-01	EPI				
Toluene-2,4-disiocane	584-84-7	9.7E+01	PHYSPROP	1.6E-04	4.1E-05	EPI	6.0E-03	PHYSPROP	1.2E+01	EPI	1.2E+00	CR289	4.0E-05	7.8E-06	WATER9 (U.S. EPA, 2001)	7.4E-03	EPI	3.7E+00	EPI	3.8E+00	9.9E-01	4.1E-01	EPI				
Toluene-2,5-diamine	95-70-5	1.2E+02	PHYSPROP	3.0E-07	7.4E-09	PHYSPROP	3.4E-03	PHYSPROP	6.4E-01	PHYSPROP	6.1E+00	CR289	6.1E+00	7.0E-06	WATER9 (U.S. EPA, 2001)	5.5E+01	EPI	1.6E+01	PHYSPROP	7.7E+00	9.9E-01	4.1E-04	EPI				
Toluene-2,5-disiocyanate	91-98-7	1.7E+02	PHYSPROP	4.5E-04	1.1E-05	EPI	2.1E-02	PHYSPROP	1.8E+01	EPI	1.2E+00	CR289	6.1E+00	7.1E-06	WATER9 (U.S. EPA, 2001)	7.6E+03	EPI	3.7E+00	EPI	3.8E+00	9.9E-01	4.2E+00	EPI				
Toluic Acid, p-	99-44-5	1.4E+02	EPI	1.2E-05	2.8E-07	YAWS	5.1E-05	EPI	1.8E+00	EPI	1.2E+00	PPRTV	6.1E+02	9.0E-06	WATER9 (U.S. EPA, 2001)	2.7E+01	EPI	2.3E+00	PHYSPROP	3.9E+02	1.8E+00	4.2E+00	8.7E-03	EPI			
Toluidine, o-(Methylaniline, 2-)	95-53-4	1.1E+02	PHYSPROP	8.1E-05	2.0E-06	PHYSPROP	2.8E-01	PHYSPROP	1.0E+00	PHYSPROP	9.0E-01	CR289	7.2E-02	9.2E-06	WATER9 (U.S. EPA, 2001)	1.2E+02	EPI	1.3E+00	PHYSPROP	6.5E+05	1.0E-02	3.0E-05	EPI				
Toluidine, p-	106-49-0	1.1E+02	PHYSPROP	8.1E-05	2.0E-06	PHYSPROP	2.9E-01	PHYSPROP	1.0E+00	PHYSPROP	9.0E-01	CR289	7.1E-02	9.0E-06	WATER9 (U.S. EPA, 2001)	1.1E+02	EPI	1.2E+02	PHYSPROP	4.2E-02	4.2E-01	4.2E+00	1.0E-03	EPI			
Total Petroleum Hydrocarbons (Aliphatic High)	E1709670	1.7E+02	EPI	3.3E+02	8.2E+00	PHYSPROP	1.4E-01	EPI	9.6E+00	CR289	3.0E+00	6.4E-06	WATER9 (U.S. EPA, 2001)	4.8E+00	EPI	6.1E+00	EPI	3.7E+03	9.5E+01	4.3E+00	1.0E+00	EPI					
Total Petroleum Hydrocarbons (Aliphatic Low)	E1709672	7.8E+01	SURROGATE	2.3E-01	5.6E-03	SURROGATE	1.2E+00	SURROGATE	1.2E+00	SURROGATE	9.0E-01	CR289	8.6E-02	8.0E-06	WATER9 (U.S. EPA, 2001)	1.2E+02	EPI	1.8E+00	SURROGATE	1.8E+00	9.5E-01	4.2E+00	EPI				
Total Petroleum Hydrocarbons (Aliphatic Medium)	E1709674	8.6E+01	SURROGATE	1.4E-01	3.4E-02	SURROGATE	1.4E-01	SURROGATE	1.4E-01	SURROGATE	9.0E-01	CR289	5.6E-02	6.8E-06	WATER9 (U.S. EPA, 2001)	8.0E+02	EPI	5.7E+00	SURROGATE	5.7E+00	5.5E+00	2.5E+00	1.7E+00	EPI			
Total Petroleum Hydrocarbons (Aromatic High)	E1709676	2.0E+02	SURROGATE	3.6E-04	8.9E-06	SURROGATE	9.2E-06	SURROGATE	1.3E+00	SURROGATE	1.3E+00	CR289	2.8E-02	7.2E-06	WATER9 (U.S. EPA, 2001)	5.5E+04	EPI	5.2E+00	SURROGATE	1.4E+00	5.1E+00	3.1E+00	1.1E+00	EPI			
Total Petroleum Hydrocarbons (Aromatic Low)	E1709672	7.8E+01	SURROGATE	2.3E-01	5.6E-03	SURROGATE	1.2E+00	SURROGATE	1.2E+00	SURROGATE	9.0E-01	CR289	8.6E-02	8.0E-06	WATER9 (U.S. EPA, 2001)	1.2E+02	EPI	1.8E+00	SURROGATE	1.8E+00	9.5E-01	4.2E+00	EPI				
Total Petroleum Hydrocarbons (Aromatic Medium)	E1709674	8.6E+01	SURROGATE	1.4E-01	3.4E-02	SURROGATE	1.4E-01	SURROGATE	1.4E-01	SURROGATE	9.0E-01	CR289	5.6E-02	6.8E-06	WATER9 (U.S. EPA, 2001)	8.0E+02	EPI	5.7E+00	SURROGATE	5.7E+00	5.5E+00	2.5E+00	1.7E+00	EPI			
Toxaphene	8001-35-2	4.5E+02	PHYSPROP	2.5E-04	6.0E-06	PHYSPROP	6.7E-06	PHYSPROP	7.7E+01	PHYSPROP	3.0E+00	PHYSPROP	3.2E+02	3.8E-06	WATER9 (U.S. EPA, 2001)	7.7E+04	EPI	5.9E+00	PHYSPROP	6.5E-01	3.4E+00	8.2E-01	5.2E-02	EPI			
Tralomethrin	66841-25-6	2.6E+02	PHYSPROP	1.6E-05	3.9E-10	EPI	3.6E+11	PHYSPROP	1.4E+00	PHYSPROP	4.0E-01	PHYSPROP	2.1E+02	2.9E-06	WATER9 (U.S. EPA, 2001)	1.9E+05	EPI	7.6E+00	PHYSPROP	8.0E-02	3.1E+01	3.1E+00	4.5E+00	EPI			
Tri-n-butyltin	888-88-7	2.8E+02	PHYSPROP	1.6E+00	4.5E+00	PHYSPROP	1.5E+00	PHYSPROP	1.5E+00	PHYSPROP	1.5E+00	CR289	1.5E+00	4.5E+00	PHYSPROP	1.5E+00	PHYSPROP	1.5E+00	PHYSPROP	1.5E+00	4.5E+00	1.5E+00	4.5E+00	EPI			
Trichloroacetic Acid	702-01-1	2.2E+02	PHYSPROP	5.0E-07	1.2E-09	EPI	1.2E+03	PHYSPROP	1.2E+03	PHYSPROP	1.2E+03	CR289	1.2E+03	3.0E-01	PHYSPROP	1.2E+03	PHYSPROP	1.2E+03	3.0E-01	PHYSPROP	1.2E+03	3.0E-01	PHYSPROP	1.2E+03	EPI		
Trichloroform	43121-43-3	3.0E+02	PHYSPROP	3.0E-09	8.1E-11	EPI	1.5E-08	PHYSPROP	1.5E+00	PHYSPROP	2.9E+00	PHYSPROP	2.3E+02	5.7E-06	WATER9 (U.S. EPA, 2001)	3.2E+02	EPI	2.8E+00	PHYSPROP	1.6E+02	1.0E+03	1.4E+03	3.0E-02	EPI			
Trichlorofluoromethane	220-79-6	3.3E+02	PHYSPROP	4.0E-05	1.0E-07	EPI	3.0E-04	PHYSPROP	3.0E-04	PHYSPROP	3.0E-04	PHYSPROP	3.0E-02	8.2E-06	WATER9 (U.S. EPA, 2001)	8.1E+02	EPI	4.1E+00	PHYSPROP	8.5E-02	7.5E-01	1.8E+01	1.2E-02	EPI			
Trichloromethane	118-79-6	3.3E+02	PHYSPROP	1.5E-05	3.8E-08	EPI	3.0E-04	PHYSPROP	3.0E-04	PHYSPROP	3.0E-04	PHYSPROP	3.0E-02	8.2E-06	WATER9 (U.S. EPA, 2001)	8.1E+02	EPI	4.1E+00	PHYSPROP	8.5E-02	7.5E-01	1.8E+01	1.2E-02	EPI			
Trichlorophenol	125-73-8	2.7E+02	PHYSPROP	5.8E-06	1.4E-06	EPI	1.1E+00	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	7.9E-06	WATER9 (U.S. EPA, 2001)	2.4E+03	BAES	2.8E+00	PHYSPROP	1.4E+00	3.3E+00	7.8E+00	2.3E+00	EPI			
Trichloroform Oxide	56-35-5	6.0E+02	PHYSPROP	1.2E-05	3.0E-07	EPI	7.5E-06	PHYSPROP	4.5E+01	PHYSPROP	1.2E+00	CR289	1.2E+00	3.0E-06	WATER9 (U.S. EPA, 2001)	2.4E+07	EPI	4.1E+00	PHYSPROP	2.4E-05	2.3E+00	5.5E-02	2.5E-04	EPI			
Trichloroform, 1,1,2-	76-13-1	1.9E+02	PHYSPROP	2.2E+01	5.3E-01	EPI	3.6E+02	PHYSPROP	3.5E+01	PHYSPROP	6.0E-02	CR289	3.8E-02	8.6E-06	WATER9 (U.S. EPA, 2001)	3.2E+00	PHYSPROP	5.6E-02	PHYSPROP	9.2E-02	1.2E+00	2.8E+00	1.8E-02	EPI			
Trichloroformate	76-03-9	1.6E+02	PHYSPROP	5.5E-07	1.4E-08	EPI	3.6E+02	PHYSPROP	3.5E+01	PHYSPROP	5.8E+01	CR289	1.6E+00	9.5E-06	WATER9 (U.S. EPA, 2001)	6.7E+03	EPI	1.3E+00	PHYSPROP	5.5E-02	PHYSPROP	7.1E-03	8.6E-01	2.1E+00	1.5E-02	EPI	
Trichloroformate, 1,1,2-	95-95-4	2.0E+02	PHYSPROP	6.0E-06	1.4E-07	EPI	3.6E+02	PHYSPROP	3.5E+01	PHYSPROP	6.0E-01	CR289	6.0E-01	9.5E-06	WATER9 (U.S. EPA, 2001)	6.7E+03	EPI	1.3E+00	PHYSPROP	5.5E-02	PHYSPROP	2.2E+00	1.4E-02	EPI			
Trichlorophenol	79-01-6	1.3E+02	PHYSPROP	4.0E-01	9.9E-03	PHYSPROP	3.5E+01	PHYSPROP	3.5E+01	PHYSPROP	3.5E+01	CR289	6.9E-02	1.0E-05	WATER9 (U.S. EPA, 2001)	6.1E+01	PHYSPROP	1.2E+00	PHYSPROP	3.7E+00	9.5E-01	3.0E+00	1.0E-04	EPI			
Trichlorophenoxide	75-59-4	1.4E+02	PHYSPROP	4.0E+00	9.7E-02	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	CR289	6.9E-02	1.0E-05	WATER9 (U.S. EPA, 2001)	6.1E+01	PHYSPROP	1.2E+00	PHYSPROP	3.7E+00	9.5E-01	3.0E+00	1.0E-04	EPI			
Trichlorophenoxide	75-59-4	1.4E+02	PHYSPROP	4.0E+00	9.7E-02	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	CR289	6.9E-02	1.0E-05	WATER9 (U.S. EPA, 2001)	6.1E+01	PHYSPROP	1.2E+00	PHYSPROP	3.7E+00	9.5E-01	3.0E+00	1.0E-04	EPI			
Trichlorophenoxide	75-59-4	1.4E+02	PHYSPROP	4.0E+00	9.7E-02	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	PHYSPROP	1.1E+00	CR289	6.9E-02	1.0E-05	WATER9 (U.S. EPA, 2001)	6.1E+01	PHYSPROP	1.2E+00</td									

PERIODIC TABLE OF THE ELEMENTS

<http://www.periodni.com>

PERIODIC TABLE OF THE ELEMENTS																	
GROUP	PERIOD																
1 IA	1																
1 1.0079 H HYDROGEN	2 6.941 Li LITHIUM	3 9.0122 Be BERYLLIUM	4 10.811 B BORON	5 10.811 B BORON	6 12.011 C CARBON	7 14.007 N NITROGEN	8 15.999 O OXYGEN	9 18.998 F FLUORINE	10 20.180 Ne NEON	11 22.990 Na SODIUM	12 24.305 Mg MAGNESIUM	13 10.811 B BORON	14 12.011 C CARBON	15 14.007 N NITROGEN	16 15.999 O OXYGEN	17 18.998 F FLUORINE	18 20.180 Ne NEON
19 39.098 K POTASSIUM	20 40.078 Ca CALCIUM	21 44.956 Sc SCANDIUM	22 47.867 Ti TITANIUM	23 50.942 V VANADIUM	24 51.996 Cr CHROMIUM	25 54.938 Mn MANGANESE	26 55.845 Fe IRON	27 58.933 Co COBALT	28 58.693 Ni NICKEL	29 63.546 Cu COPPER	30 65.38 Zn ZINC	31 69.723 Al ALUMINIUM	32 72.64 Si SILICON	33 74.922 P PHOSPHORUS	34 78.96 S SULPHUR	35 79.904 Cl CHLORINE	36 83.798 Ar ARGON
37 85.468 Rb RUBIDIUM	38 87.62 Sr STRONTIUM	39 88.906 Y YTTRIUM	40 91.224 Zr ZIRCONIUM	41 92.906 Nb NIOBIUM	42 95.96 Mo MOLYBDENUM	43 (98) Tc TECHNETIUM	44 101.07 Ru RUTHENIUM	45 102.91 Rh RHODIUM	46 106.42 Pd PALLADIUM	47 107.87 Ag SILVER	48 112.41 Cd CADMIUM	49 114.82 In INDIUM	50 118.71 Sn TIN	51 121.76 Sb ANTIMONY	52 127.60 Te TELLURIUM	53 126.90 I IODINE	54 131.29 Xe XENON
55 132.91 Cs CAESIUM	56 137.33 Ba BARIUM	57-71 La-Lu Lanthanide	72 178.49 Hf HAFNIUM	73 180.95 Ta TANTALUM	74 183.84 W TUNGSTEN	75 186.21 Re RHENIUM	76 190.23 Os OSMIUM	77 192.22 Ir IRIDIUM	78 195.08 Pt PLATINUM	79 196.97 Au GOLD	80 200.59 Hg MERCURY	81 204.38 Tl THALLIUM	82 207.2 Pb LEAD	83 208.98 Bi BISMUTH	84 (209) Po POLONIUM	85 (210) At ASTATINE	86 (222) Rn RADON
87 (223) Fr FRANCIUM	88 (226) Ra RADIUM	89-103 Ac-Lr Actinide	104 (267) Rf RUTHERFORDIUM	105 (268) Db DUBNIUM	106 (271) Sg SEABORGIUM	107 (272) Bh BOHRIUM	108 (277) Hs HASSIUM	109 (276) Mt MEITNERIUM	110 (281) Ds DARMSTADTIUM	111 (280) Rg ROENTGENIUM	112 (285) Cn COOPERNICIUM	113 (...) Uut UNUNTRIUM	114 (287) Fl FLEROVIUM	115 (...) Uup UNUNPENTIUM	116 (291) Lv LIVERMORIUM	117 (...) Uus UNUNSEPTIUM	118 (...) Uuo UNUNOCTIUM

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Relative atomic masses are expressed with five significant figures. For elements that have no stable nuclides, the value enclosed in brackets indicates the mass number of the longest-lived isotope of the element. However three such elements (Th, Pa and U) do have a characteristic terrestrial isotopic composition, and for these an atomic weight is tabulated.

57	138.91	58	140.12	59	140.91	60	144.24	61	(145)	62	150.36	63	151.96	64	157.25	65	158.93	66	162.50	67	164.93	68	167.26	69	168.93	70	173.05	71	174.97
La		Ce		Pr		Nd		Pm		Sm		Eu		Gd		Tb		Dy		Ho		Er		Tm		Yb		Lu	

ACTINIDE														
89 (227)	90 232.04	91 231.04	92 238.03	93 (237)	94 (244)	95 (243)	96 (247)	97 (247)	98 (251)	99 (252)	100 (257)	101 (258)	102 (259)	103 (262)
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
ACTINIUM	THORIUM	PROTACTINIUM	URANIUM	NEPTUNIUM	PLUTONIUM	AMERICIUM	CURIUM	BERKELIUM	CALIFORNIUM	EINSTEINIUM	FERMIUM	MENDELEVIUM	NOBELIUM	LAWRENCIUM