

Contaminant	Molecular Weight		Henry's Law Constants				Density (g/cm <sup>3</sup> )		Diffusivity in Air (cm <sup>2</sup> /s)		Diffusivity in Water (cm <sup>2</sup> /s)		Organic carbon partition coefficient (K <sub>oc</sub> )		Solubility in water (mg/L)	
	CAS No.	MW	MW Ref	H <sup>†</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>†</sup> and HLC Ref	Density	Density Ref	Dia	Dia Ref	D <sub>w</sub>	D <sub>w</sub> Ref	K <sub>oc</sub>	K <sub>oc</sub> Ref	S	S Ref
ALAR	1566-84-5	160.17	EPI	1.70E-08	4.23E-10	EPI (Henry Win) 1							1.00E+01	EPI (PCKOCWIN)	1.00E+05	Tomlin (1994)
Acephate	30560-19-1	183.16	EPI	2.00E-11	5.01E-13	EPI (Henry Win) 1	1.35	CRC					2.18E+05	Wauchope et al. (1991a)	8.18E+05	Wauchope et al. (1991a)
Acetaldehyde	75-07-0	44.05	EPI	2.70E-03	6.67E-05	Gaffney et al. (1987)	0.7834	CRC	1.30E-01	EPA 2002	1.40E-05	EPA 2002	1.50E+00	EPI (PCKOCWIN)	1.00E+06	Riddick et al. (1986)
Acechlor	34256-82-1	289.77	EPI	8.10E-07	2.23E-08	EPI (Henry Win)			1.10E-01	EPA 2002	1.10E-05	EPA 2002	1.76E+02	EPI (PCKOCWIN)	2.23E+02	Shiu et al. (1990)
Acetone	67-64-1	58.08	EPI	1.60E-03	3.97E-05	Taft et al. (1985)	0.7845	CRC	1.00E-01	EPA 2002	1.98E+00	EPI (PCKOCWIN)	1.98E+00	EPI (PCKOCWIN)	1.00E+06	Riddick et al. (1986)
Acetone Cyanohydrin	75-86-5	85.11	EPI	5.30E-04	1.30E-05	EPI (Henry Win)	0.932	CRC	8.60E-02	EPA 2002	1.00E-05	EPA 2002	1.00E+00	EPI (PCKOCWIN)	1.00E+06	Smiley (1981)
Acetonitrile	75-05-8	41.05	EPI	1.40E-03	3.45E-05	Gaffney et al. (1987)	0.7857	CRC	1.30E-01	EPA 2002	1.40E-05	EPA 2002	4.50E+00	EPI (PCKOCWIN)	1.00E+06	Riddick et al. (1986)
Acetophenone	98-86-2	120.15	EPI	4.30E-04	1.04E-05	Betterton (1991)	1.0281	CRC	6.50E-02	EPA 2002	8.70E-06	EPA 2002	4.62E+01	EPI (PCKOCWIN)	6.13E+03	Southworth and Keller (1986)
Acetylphenylfluorene, 2-	953-96-3	223.28	EPI	7.80E-09	1.92E-10	EPI (Henry Win)							2.60E+03	EPI (PCKOCWIN)	5.53E+00	EPI (PCKOCWIN)
Adiscarb	107-02-8	93.13	EPI	5.00E-03	1.22E-04	Gaffney et al. (1987)	0.84	CRC	1.10E-01	EPA 2002	1.20E-05	EPA 2002	2.76E+00	EPI (PCKOCWIN)	2.76E+00	Saidel (1941)
Acrylamide	79-06-1	71.08	EPI	4.10E-08	1.00E-09	EPI (Henry Win) 1	1.0511	CRC	1.10E-01	EPA 2002	1.20E-05	EPA 2002	1.05E+01	EPI (PCKOCWIN)	6.40E+05	Yalkowsky and Dannenfeiser (1992)
Acrylic Acid	79-10-7	72.06	EPI	1.50E-05	3.70E-07	EPI (Henry Win) 1	1.0511	CRC	1.00E-01	EPA 2002	1.20E-05	EPA 2002	1.20E+00	EPI (PCKOCWIN)	1.00E+06	Riddick et al. (1986)
Acrylonitrile	107-13-1	53.06	EPI	5.60E-03	1.38E-04	Bocek (1976)	0.8007	CRC	1.10E-01	EPA 2002	1.20E-05	EPA 2002	8.30E+00	EPI (PCKOCWIN)	7.45E+04	Yalkowsky and Dannenfeiser (1992)
Adiponitrile	111-69-3	108.14	EPI	4.90E-08	1.21E-09	EPI (Henry Win) 1	0.9676	CRC	7.10E-02	EPA 2002	9.00E-06	EPA 2002	9.61E+01	EPI (PCKOCWIN)	8.00E+04	Smiley (1981)
Alachlor	15972-60-8	269.77	EPI	3.40E-07	8.32E-09	Fendinger and Glotfelty (1988)	1.133	CRC					1.85E+02	EPI (PCKOCWIN)	2.40E+02	Chesters et al. (1988)
Aldicarb	116-06-3	180.26	EPI	5.90E-08	1.44E-09	EPI (Henry Win) 1	1.195	CRC					3.25E+01	EPI (PCKOCWIN)	6.03E+03	Bowman and Sans (1983a)
Aldicarb Sulfone	1646-88-4	222.26	EPI	1.40E-07	3.37E-09	EPI (Henry Win) 1							1.00E+01	EPI (PCKOCWIN)	1.00E+04	Wauchope et al. (1991a)
Aldrin	309-00-2	364.92	EPI	1.80E-03	4.40E-05	Altschuh et al. (1999)							1.06E+05	EPI (PCKOCWIN)	1.70E-02	Yalkowsky and Dannenfeiser (1992)
Alyl	74223-64-6	381.37	EPI	3.10E+12	7.52E-14	EPI (Henry Win)	0.854	CRC	1.10E-01	EPA 2002	1.20E-05	EPA 2002	6.92E+01	EPI (PCKOCWIN)	9.50E+03	Beyer et al. (1988)
Alyl Alcohol	107-18-6	58.08	EPI	2.00E-04	4.99E-02	Hine and Mookerjee (1975)	0.9376	CRC	9.40E-02	EPA 2002	1.10E-05	EPA 2002	1.33E+00	EPI (PCKOCWIN)	1.00E+06	Yalkowsky and Dannenfeiser (1992)
Alyl Chloride	107-05-1	76.53	EPI	4.50E-01	1.10E-02	EPI (Henry Win) 1	1.27	CRC					4.38E+01	EPI (PCKOCWIN)	3.37E+03	Dilling (1977)
Aluminum	7429-90-5	30.01	EPI				2.4	CRC							0.00E+00	CRC 85th edition, considered insoluble
Aluminum Phosphide	20895-73-8	57.96	EPI				2.4	CRC							0.00E+00	CRC 85th edition, reacts in water and/or decomposes.
Amdro	67485-29-4	494.49	EPI	9.00E-05	2.20E-06	EPI (Henry Win) 1							6.34E+08	EPI (PCKOCWIN)	6.00E-03	Tomlin (1994)
Ametryn	834-12-8	227.33	EPI	9.80E-08	2.39E-09	EPI (Henry Win) 1							4.45E+02	EPI (PCKOCWIN)	2.09E+02	Yalkowsky and Dannenfeiser (1992)
Aminobiphenyl, 4-	92-67-1	169.23	EPI	7.10E-06	1.73E-07	EPI (Henry Win)							1.69E+03	EPI (PCKOCWIN)	2.24E+02	EPI (WSKOWWIN)
Aminophenol, m-	591-27-5	109.13	EPI	6.10E-08	2.36E-09	EPI (Henry Win) 1							7.25E+01	EPI (PCKOCWIN)	2.70E+04	Yalkowsky and Dannenfeiser (1992)
Aminophenol, p-	123-30-8	109.13	EPI	3.90E-08	9.57E-10	EPI (Henry Win) 1							7.25E+01	EPI (PCKOCWIN)	6.00E+03	Dunn (1954)
Amirbaz	33089-61-1	283.42	EPI	4.00E-04	6.87E-06	Tomlin (1997)	1.128	CRC					6.44E+05	EPI (PCKOCWIN)	1.00E+00	Shiu et al. (1990)
Ammonia	7664-41-7	17.03	EPI	6.60E-04		HLC from PHYPROP converted to H <sup>†</sup>									4.82E+05	PHYSPROP, measured at 24 degrees Celsius.
Ammonium Perchlorate	7790-98-9	117.49	EPI				1.95	CRC							2.45E+05	CRC 85th edition, measured at 25 degrees Celsius.
Ammonium Sulfamate	7773-06-0	97.09	EPI				1.0217	CRC	8.30E-02	EPA 2002	1.00E-05	EPA 2002	4.48E+01	EPI (PCKOCWIN)	3.60E+04	Yalkowsky and Dannenfeiser (1992)
Aniline	62-53-3	93.09	EPI	8.30E-05	2.02E-06	Jayasinghe et al. (1992)	6.68	CRC							0.00E+00	CRC 85th edition, assigned a water solubility value of 0
Antimony (metallic)	7440-38-0	124.78	EPI				3.78	CRC							3.00E+03	CRC 85th edition, measured at 20 degrees Celsius.
Antimony Pentoxide	1314-60-9	323.52	CRC													
Antimony Potassium Tartrate	11071-15-1															
Antimony Tetroxide	1332-81-6	307.52	EPI				6.64	CRC								
Antimony Trioxide	1309-64-4	291.52	EPI				5.58	CRC								
Apoflo	74115-24-5	303.15	EPI	1.60E-08	3.90E-10	EPI (Henry Win) 1							6.45E+05	EPI (PCKOCWIN)	1.00E+00	Merck Index (1996)
Ararite	140-57-8	334.86	EPI	7.80E-06	1.90E-07	EPI (Henry Win)	1.143	CRC					2.02E+04	EPI (PCKOCWIN)	5.90E-01	EPI (WSKOWWIN)
Arsenic, Inorganic	7440-38-2	74.92	CRC				5.75	CRC							0.00E+00	CRC 85th edition, considered insoluble
Arsine	7784-42-1	77.95	EPI												9.58E+02	Lange's (15th Ed.), measured at 20 degrees Celsius.
Assure	76578-14-8	372.81	EPI	4.30E-07	1.06E-08	EPI (Henry Win) 1							5.42E+03	EPI (PCKOCWIN)	4.00E-01	Shiu et al. (1990)
Asulam	33377-11-1	230.24	EPI	7.00E+11	1.71E-12	EPI (Henry Win)							4.16E+01	EPI (PCKOCWIN)	5.00E+03	Yalkowsky and Dannenfeiser (1992)
Asulfolon	89359-37-5	215.69	EPI	9.60E-08	2.36E-09	EPI (Henry Win) 1							2.30E+02	EPI (PCKOCWIN)	3.47E+01	Ward and Weber (1968)
Avermectin B1	85195-55-3	875.12	EPI	5.40E-26	1.32E-27	EPI (Henry Win)							1.29E+03	EPI (PCKOCWIN)	3.50E-04	EPI (WSKOWWIN)
Azobenzene	103-33-3	182.23	EPI	5.50E-04	1.35E-05	EPI (Henry Win) 1	1.09	CHEMFINDER	3.40E-02	EPA 2002	7.00E-06	EPA 2002	1.95E+03	EPI (PCKOCWIN)	6.40E+00	Takagishi et al. (1969)
Barium	7440-39-3	137.33	EPI				3.62	CRC							0.00E+00	CRC 85th edition, reacts in water and/or decomposes.
Baygon	114-26-1	209.25	EPI	5.80E-08	1.43E-09	EPI (Henry Win) 1	1.12	CRC					4.42E+01	EPI (PCKOCWIN)	1.86E+03	Bowman and Sans (1983)
Bayleton	43121-43-3	293.76	EPI	3.30E-09	8.11E-11	EPI (Henry Win) 1	1.22	CRC					5.22E+03	EPI (PCKOCWIN)	7.15E+01	Wauchope et al. (1991a)
Baythroid	89359-37-5	434.30	EPI	6.10E-09	1.50E-10	EPI (Henry Win) 1							1.79E+03	EPI (PCKOCWIN)	3.00E-03	Tomlin (1997)
Benfenil	1861-40-1	335.29	EPI	1.20E-02	2.91E-04	EPI (Henry Win) 1							9.68E+03	EPI (PCKOCWIN)	1.00E-01	Tomlin (1997)
Benomyl	17804-35-2	290.32	EPI	2.00E-10	4.93E-12	USDA Pest. Prop. Database							5.20E+02	EPI (PCKOCWIN)	3.80E+00	Yalkowsky and Dannenfeiser (1992)
Benazon	25057-89-0	240.28	EPI	8.90E-08	2.18E-09	EPI (Henry Win) 1							3.75E+01	EPI (PCKOCWIN)	5.00E+02	Shiu et al. (1990)
Benzaldehyde	100-52-7	106.13	EPI	1.10E-03	2.67E-05	Betterton and Hoffman (1988)	1.0401	CRC	7.40E-02	EPA 2002	9.50E-06	EPA 2002	3.27E+01	EPI (PCKOCWIN)	6.57E+03	Yalkowsky and Dannenfeiser (1992)
Benzene	71-43-2	78.11	EPI	2.30E-01	5.55E-03	MacKay et al. (1979)	0.8765	CRC	9.00E-02	EPA 2002	1.00E-05	EPA 2002	1.66E+02	EPI (PCKOCWIN)	1.79E+03	May et al. (1983)
Benzeneethiol	109-98-5	110.17	EPI	1.40E-02	3.35E-04	EPI (Henry Win) 1	1.0775	CRC	7.30E-02	EPA 2002	9.50E-06	EPA 2002	2.68E+02	EPI (PCKOCWIN)	3.85E+02	Wakita et al. (1985)
Benzidine	92-87-5	184.24	EPI	2.90E-09	7.05E-11	EPI (Henry Win)							2.74E+03	EPI (PCKOCWIN)	3.22E+02	Yalkowsky and Dannenfeiser (1992)
Benzoic Acid	65-85-0	122.12	EPI	1.60E-06	3.81E-08	EPI (Henry Win) 1	1.2659	CRC					1.45E+01	EPI (PCKOCWIN)	3.40E+03	Yalkowsky and Dannenfeiser (1992)
Benzotrichloride	98-07-7	195.48	EPI	1.10E-02	2.60E-04	EPI (Henry Win)	1.3723	CRC	3.10E-02	EPA 2002	7.70E-06	EPA 2002	1.18E+03	EPI (PCKOCWIN)	2.17E+01	EPI (WSKOWWIN)
Benzyl Alcohol	100-51-6	108.14	EPI	1.40E-05	3.37E-07	Abraham et al. (1994)	1.0419	CRC	7.30E-02	EPA 2002	9.40E-06	EPA 2002	1.57E+01	EPI (PCKOCWIN)	4.29E+04	Yalkowsky and Dannenfeiser (1992)
Benzyl Chloride	100-44-7	126.59	EPI	1.70E-02	4.12E-04	EPI (Henry Win) 1	1.0104	CRC	6.30E-02	EPA 2002	8.80E-06	EPA 2002	5.18E+02	EPI (PCKOCWIN)	2.00E+01	Talian et al. (1986)
Beryllium and compounds	7440-41-7	9.01	EPI				1.85	CRC							0.00E+00	Lange's (15th Ed.), considered insoluble
Bidrin	141-66-2	237.19	EPI	2.10E-09	5.03E-11	Dupont (Pest. Prop. Database)	1.216	CRC					3.66E+02	EPI (PCKOCWIN)	1.00E+06	Shiu et al. (1990)
Bifenox	42576-02-3	342.14	EPI	4.40E-06	1.08E-07	EPI (Henry Win) 1							3.79E+03	EPI (PCKOCWIN)	3.98E+01	Wauchope et al. (1991a)
Biphenthrin	82657-04-3	422.88	EPI	4.10E-05												

Analyte	CAS No.	Molecular Weight		Henry's Law Constants				Density (g/cm <sup>3</sup> )		Diffusivity in Air (cm <sup>2</sup> /s)		Diffusivity in Water (cm <sup>2</sup> /s)		Organic carbon partition coefficient (L/kg)		Solubility in water (mg/L)	
		MW	MW Ref	H <sup>1</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>1</sup> and HLC Ref	Density	Density Ref	Di	Di Ref	Diw	Diw Ref	Koc	Koc Ref	S	S Ref	
Chlordecone (Kepone)	143-50-0	490.64	EPI	2.20E-06	5.38E-08	EPI (Henry Win) 1	1.61	CRG					1.75E+04	EPI (PCKOCWIN)	2.70E+00	Kilzer et al. (1979)	
Chlorfenvinphos	470-90-6	359.58	EPI	6.30E-07	1.53E-08	EPI (HenryWin)							5.91E+02	EPI (PCKOCWIN)	1.24E+02	EPI (WSKOWWIN)	
Chlorfurofen, Ethyl-	90982-32-4	414.82	EPI	7.40E-14	1.82E-15	EPI (Henry Win) 1							7.82E+01	EPI (PCKOCWIN)	1.20E+03	Tomlin (1997)	
Chlorine	7782-50-5	70.91	EPI	4.80E-01		HLC from PHYPROP converted to H <sup>1</sup>									6.30E+03	PHYSPROP	
Chlorine Dioxide	10049-04-4	67.45	EPI												1.12E+05	Lange's (15th Ed.), measured at 10 degrees Celsius.	
Chlorite (Sodium Salt)	7758-19-2	90.44	EPI												6.40E+05	CRG 85th edition, measured at 17 degrees Celsius.	
Chloro-1,1-difluoroethane, 1-	75-68-3	100.50	EPI	2.40E+00	5.88E-02	Chang and Criddle (1995)	1.107	CRG	8.00E-02	EPA 2002	1.00E-05	EPA 2002	4.86E+01	EPI (PCKOCWIN)	1.40E+03	Chang and Criddle (1995)	
Chloro-1,3-butadiene, 1-	126-99-8	88.54	EPI	2.30E+00	5.61E-02	EPI (HenryWin)	0.956	CRG	8.40E-02	EPA 2002	1.00E-05	EPA 2002	6.77E+01	EPI (PCKOCWIN)	8.75E+02	EPI (WSKOWWIN)	
Chloro-2-methylaniline, HCl, 4-	3165-93-3	141.60	EPI	8.10E-05	1.99E-06	EPI (HenryWin)			7.00E-02	EPA 1987	8.20E-06	EPA 1987	1.20E+02	EPI (PCKOCWIN)	9.54E+02	EPI (WSKOWWIN)	
Chloro-2-methylaniline, 4-	95-69-2	141.60	EPI	8.10E-05	1.99E-06	EPI (HenryWin)			7.00E-02	EPA 1987	8.20E-06	EPA 1987	1.20E+02	EPI (PCKOCWIN)	9.54E+02	EPI (WSKOWWIN)	
Chloroacetic Acid	79-11-8	98.50	EPI	9.42E-09		EPI (Henry Win) 1	1.4043	CRG							1.20E+00	EPI (PCKOCWIN)	
Chloroacetophenone, 2-	532-27-4	154.60	EPI	1.30E-04	3.30E-06	EPI (HenryWin)	1.324	CRG	5.20E-02	EPA 2002	8.70E-06	EPA 2002	8.93E+01	EPI (PCKOCWIN)	1.64E+03	EPI (WSKOWWIN)	
Chloroaniline, p-	106-47-8	127.57	EPI	4.70E-05	1.16E-06	EPI (Henry Win) 1	1.429	CRG	7.00E-02	EPA 2002	1.00E-05	EPA 2002	7.25E+01	EPI (PCKOCWIN)	3.90E+03	Kilzer et al. (1979)	
Chlorobenzene	108-90-7	112.56	EPI	1.30E-01	3.11E-03	Shiu and MacKay (1997)	1.1058	CRG	7.20E-02	EPA 2002	9.50E-06	EPA 2002	2.68E+02	EPI (PCKOCWIN)	4.98E+02	Horvath (1982)	
Chlorobenzilate	510-15-6	325.19	EPI	3.00E-06	7.24E-08	EPI (Henry Win) 1	1.2816	CRG					1.26E+03	EPI (PCKOCWIN)	1.30E+01	Furer and Geiger (1977)	
Chlorobenzotrifluoride, 4-	98-56-6	180.56	EPI	1.40E+00	3.47E-02	EPI (HenryWin)	1.334	CRG	3.80E-02	EPA 2002	8.00E-06	EPA 2002	1.91E+03	EPI (PCKOCWIN)	4.81E+01	EPI (WSKOWWIN)	
Chlorobutane, 1-	109-69-3	92.57	EPI	6.80E-01	1.67E-02	Leighton and Calo (1981)	0.8857	CRG	7.70E-02	EPA 2002	9.30E-06	EPA 2002	8.08E+01	EPI (PCKOCWIN)	1.10E+03	Riddick et al. (1986)	
Chlorodifluoromethane	75-45-6	86.47	EPI	1.70E+00	4.06E-02	Chang and Criddle (1995)	1.4909	CRG	1.00E-01	EPA 2002	1.30E-05	EPA 2002	3.50E+01	EPI (PCKOCWIN)	2.77E+03	Horvath (1982)	
Chloroform	67-66-6	119.38	EPI	1.50E-01	3.67E-03	Gossett (1987)	1.4788	CRG	7.70E-02	EPA 2002	1.10E-05	EPA 2002	3.50E+01	EPI (PCKOCWIN)	7.95E+03		
Chloroformethane	74-67-3	50.49	EPI	3.60E-01	8.82E-03	Gossett (1987)	0.911	CRG	1.20E-01	EPA 2002	1.40E-05	EPA 2002	1.43E+01	EPI (PCKOCWIN)	5.32E+03	Horvath (1982)	
Chloromethyl Methyl Ether	107-30-2	80.51	EPI	1.20E-02	3.04E-04	EPI (HenryWin)	1.063	CRG	9.50E-02	EPA 2002	1.10E-05	EPA 2002	2.38E+00	EPI (PCKOCWIN)	6.94E+04	EPI (WSKOWWIN)	
Chlorophthalene, Beta-	91-58-7	162.10	EPI	1.30E-02	3.20E-04	Shiu and MacKay (1997)	1.1377	CRG	4.50E-02	EPA 2002	7.70E-06	EPA 2002	2.98E+03	EPI (PCKOCWIN)	1.77E+01	MacKay and Shiu (1981)	
Chloronitrobenzene, o-	88-73-3	157.56	EPI	3.80E-04	9.30E-06	Altschuh et al. (1999)	1.368	CRG	5.10E-02	EPA 2002	8.80E-06	EPA 2002	3.16E+02	EPI (PCKOCWIN)	4.41E+02	Yalkowsky and Dannenfelser (1992)	
Chloronitrobenzene, p-	100-00-5	157.56	EPI	2.00E-04	4.89E-06	Altschuh et al. (1999)	1.2979	CRG	5.00E-02	EPA 2002	8.50E-06	EPA 2002	3.09E+02	EPI (PCKOCWIN)	2.25E+02	Yalkowsky and Dannenfelser (1992)	
Chlorophenol, 2-	95-67-8	128.56	EPI	4.60E-04	1.12E-05	Abraham et al. (1994)	1.2634	CRG	6.60E-02	EPA 2002	9.50E-06	EPA 2002	4.43E+02	EPI (PCKOCWIN)	2.85E+04	Banerjee et al. (1980)	
Chloropicrin	76-06-2	205.03	EPI	8.20E-05	2.05E-03		1.7	CRG					2.39E+03	EPI (PCKOCWIN)	6.00E+01	Worthing and Walker (1987)	
Chlorothalonil	1897-45-6	265.91	EPI	8.20E-05	2.05E-06	Kawamoto and Urano (1989)	1.0825	CRG	6.30E-02	EPA 2002	8.70E-06	EPA 2002	4.43E+02	EPI (PCKOCWIN)	3.74E+02	Valvani et al. (1981)	
Chlorotoluene, o-	126-59-9	126.59	EPI	1.80E-01	3.57E-03	Leighton and Calo (1981)	1.0697	CRG	6.30E-02	EPA 2002	8.70E-06	EPA 2002	4.34E+02	EPI (PCKOCWIN)	1.08E+02	Yalkowsky and Dannenfelser (1992)	
Chlorotoluene, p-	106-43-4	126.59	EPI	1.80E-01	4.38E-03	EPI (Henry Win) 1	1.18	CRG	6.30E-02	EPA 2002	8.70E-06	EPA 2002	2.08E+02	EPI (PCKOCWIN)	8.90E+01	Wauchope et al. (1992)	
Chlorophthalamide	101-21-3	213.67	EPI	9.80E-07	2.40E-08	EPI (Henry Win) 1									1.12E+00		
Chlorpyrifos	2921-88-2	350.59	EPI	1.20E-04	2.93E-06	Rice and Chernyak (1995)							6.83E+03	EPI (PCKOCWIN)	1.12E+00		
Chlorpyrifos Methyl	5598-13-0	322.53	EPI	1.50E-04	3.75E-06	EPI (Henry Win) 1							2.01E+03	EPI (PCKOCWIN)	4.78E+00	Chlou et al. (1977)	
Chlorosulfuron	64902-72-3	357.77	EPI	1.60E-13	3.90E-15	EPI (Henry Win) 1							2.39E+02	EPI (PCKOCWIN)	2.80E+04	Beyer et al. (1988)	
Chromophos	60238-56-4	361.24	EPI	4.90E-05	1.20E-06	EPI (HenryWin)							1.32E+04	EPI (PCKOCWIN)	5.86E-02	EPI (WSKOWWIN)	
Chromium (III) (Insoluble Salts)	16065-83-1						5.22	CRG Chrom III note							0.00E+00	CRG 85th edition, considered insoluble	
Chromium VI (chromic acid mists)	18540-29-9						2.9	CRG Chrom VI note							1.69E+06	CRG 85th edition, measured at 25 degrees Celsius.	
Chromium VI (particulates)	18540-29-9														1.69E+06	CRG 85th edition, measured at 25 degrees Celsius.	
Chromium(VI), Aerosol Mists	7738-94-5	118.01	EPI												0.00E+00	CRG 85th edition, considered insoluble	
Chromium, Total (1:6 ratio Cr VI : Cr III)	7440-47-3						8.86	CRG							0.00E+00	CRG 85th edition, considered insoluble	
Cobalt	7440-48-4	58.93	EPI												0.00E+00	Lange's (15th Ed.), considered insoluble	
Coke Oven Emissions	8007-45-2	78.11	EPI	2.30E-01	5.55E-03	MacKay et al. (1979)			1.00E-01	EPA 1987	1.20E-05	EPA 1987	1.66E+02	EPI (PCKOCWIN)	1.79E+03	May et al. (1983)	
Copper	7440-50-8	63.55	EPI												0.00E+00	Lange's (15th Ed.), considered insoluble	
Cresol, m-	108-39-4	108.14	EPI	3.50E-05	8.56E-07	Altschuh et al. (1999)	1.0339	CRG	7.30E-02	EPA 2002	9.30E-06	EPA 2002	4.34E+02	EPI (PCKOCWIN)	2.27E+04	Yalkowsky and Dannenfelser (1992)	
Cresol, o-	95-48-7	108.14	EPI	4.90E-05	1.20E-06	Gaffney et al. (1987)	1.0327	CRG	7.30E-02	EPA 2002	9.30E-06	EPA 2002	4.43E+02	EPI (PCKOCWIN)	2.59E+04	Yalkowsky and Dannenfelser (1992)	
Cresol, p-	108-44-5	108.14	EPI	1.06E-06	1.00E-06	Gaffney et al. (1987)	1.0185	CRG	7.20E-02	EPA 2002	9.20E-06	EPA 2002	4.34E+02	EPI (PCKOCWIN)	2.59E+04	Yalkowsky and Dannenfelser (1992)	
Cresol, 1,3,5-tri-	1319-77-5	108.14	EPI	4.90E-05	1.20E-06	EPI (Henry Win) 1			8.40E-02	EPA 1987	9.80E-06	EPA 1987	4.43E+02	EPI (PCKOCWIN)	2.59E+04	EPI (WSKOWWIN)	
Crotonaldehyde, trans-	123-73-9	70.09	EPI	7.90E-04	1.94E-05	Hine and Mookerjee (1975)	0.8516	CRG	9.60E-02	EPA 2002	1.10E-05	EPA 2002	5.10E+00	EPI (PCKOCWIN)	1.81E+05	Baxter (1979)	
Cumene	98-82-8	120.20	EPI	4.70E-01	1.15E-02	Sanemasa et al. (1982)	0.864	CRG	6.00E-02	EPA 2002	7.90E-06	EPA 2002	7.18E+02	EPI (PCKOCWIN)	6.13E+01	Sanemasa et al. (1982)	
Cyanazine	21725-46-2	240.70	EPI	1.20E-10	2.96E-12	USDA Pest. Prop. Database							1.24E+02	EPI (PCKOCWIN)	1.70E+02	Wauchope et al. (1991a)	
<b>Cyanides</b>																	
-Calcium Cyanide	592-01-8	92.11	EPI												0.00E+00	CRG 85th edition, considered insoluble	
-Copper Cyanide	544-92-3	89.56	EPI				2.9	CRG							0.00E+00	CRG 85th edition, considered insoluble	
-Cyanide (CN-)	57-12-5	27.03	EPI												0.00E+00	Lange's (15th Ed.), measured at 20 degrees Celsius	
-Cyanogen	460-19-5	52.04	EPI	2.20E-01		HLC from Yaw's converted to H <sup>1</sup>	0.9537	CRG	1.20E-01	EPA 2002	1.40E-05	EPA 2002			1.05E+04	Lange's (15th Ed.), measured at 20 degrees Celsius	
-Cyanogen Bromide	506-68-3	105.92	EPI				2.015	CRG	9.80E-02	EPA 2002	1.40E-05	EPA 2002			6.00E+04		
-Cyanogen Chloride	506-77-4	61.47	EPI	7.90E-02		HLC from Yaw's converted to H <sup>1</sup>	1.186	CRG	1.20E-01	EPA 2002	1.40E-05	EPA 2002			1.00E+00	PHYSPROP, measured at 25 degrees Celsius.	
-Hydrogen Cyanide	74-90-9	27.03	EPI	5.40E-03		HLC from PHYPROP converted to H <sup>1</sup>	0.6876	CRG (at 20 C)	1.70E-01	EPA 2002	1.70E-05	EPA 2002			6.90E+05	CRG 85th edition, measured at 20 degrees Celsius.	
-Potassium Cyanide	151-50-8	65.12	EPI				1.55	CRG							2.50E+05	Lange's (15th Ed.), measured at 30 degrees Celsius.	
-Potassium Silver Cyanide	506-61-6	199.00	EPI				3.95	CRG							1.10E-02	CRG 85th edition	
-Silver Cyanide	506-64-9	133.89	EPI				1.6	CRG							5.82E+05	CRG 85th edition, measured at 20 degrees Celsius.	
-Sodium Cyanide	143-33-9	49.01	EPI				1.852	CRG	1.30E-01	EPA 1987	1.50E-05	EPA 1987	4.50E+00	EPI (PCKOCWIN)	4.38E+04	EPI (WSKOWWIN)	
-Thioyanate	483-56-9	59.09	EPI	6.00E-03	1.46E-04	EPI (HenryWin)	1.773	CRG							4.70E+00	CRG (measured at 20 degrees Celsius)	
-Zinc Cyanide	557-21-1	117.43	EPI				0.7739	CRG	8.00E-02	EPA 2002	9.10E-06	EPA 2002	1.66E+02	EPI (PCKOCWIN)	5.50E+01	McAuliffe (1966)	
Cyclohexane	110-82-7	84.16	EPI	6.10E+00	1.50E-01	Boek (1976)							3.38E+03	EPI (PCKOCWIN)	3.50E+02	EPI (WSKOWWIN)	
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	513.09</															



Analyte	CAS No.	Molecular Weight		Henry's Law Constants				Density (g/cm <sup>3</sup> )		Diffusivity in Air (cm <sup>2</sup> /s)		Diffusivity in Water (cm <sup>2</sup> /s)		Organic carbon partition coefficient (L/kg)	Solubility in water (mg/L)			
		MW	MW Ref	H <sup>1</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>1</sup> and HLC Ref	Density	Density Ref	Dia	Dia Ref	Dia	Dia Ref	Dia	Dia Ref	Koc	Koc Ref	S	S Ref
Furmecycloz	60568-05-0	251.33	EPI	2.80E-07	6.89E-09	EPI (HenryWin)								1.55E+03	EPI (PCKOCWIN)	3.00E-01	Worthing and Walker (1987)	
Glufosinate, Ammonium	77182-82-2	198.16	EPI	1.00E-22	2.53E-24	EPI (HenryWin)								6.00E+01	EPI (PCKOCWIN)	1.37E+06	Tomlin (1997)	
Glycidyl	765-34-4	72.06	EPI	3.20E+05	7.84E-07	EPI (HenryWin)	1.1403	CRC	1.10E-01	EPA 2002	1.30E-05	EPA 2002	1.00E+00	EPI (PCKOCWIN)	1.00E+06	IARC (1976)		
Glyphosate	1071-83-6	169.07	EPI	1.70E-17	4.08E-19	EPI (HenryWin)	1.35	CRC						1.98E+01	EPI (PCKOCWIN)	1.20E+04	Worthing and Walker (1987)	
Coal	42574-03-3	361.71	EPI	3.40E-05	8.21E-07	EPI (Henry Win) 1	1.44	CRC						4.88E+04	EPI (PCKOCWIN)	1.16E-01	Tomlin (1994)	
Guthion	86-50-0	317.32	EPI	9.80E-07	2.39E-08	EPI (HenryWin)								6.97E+01	EPI (PCKOCWIN)	2.09E+01	EPI (WSKOWWIN)	
Haloxypol, Methyl	69806-40-2	375.73	EPI	1.30E-05	3.19E-07	EPI (Henry Win) 1								1.78E+04	EPI (PCKOCWIN)	9.90E+00	Shiu et al. (1990)	
Hamony	79277-27-3	387.39	EPI	1.70E-12	4.08E-14	EPI (HenryWin)								3.75E+01	EPI (PCKOCWIN)	2.30E+02	Tomlin (1997)	
Heptachlor	7644-8	373.32	EPI	1.20E-02	2.94E-04	Altschuh et al. (1999)	1.57	CRC						5.24E+04	EPI (PCKOCWIN)	1.80E-01	Biggar and Riggs (1974)	
Heptachlor Epoxide	10244-57-3	389.32	EPI	6.60E-04	2.10E-05	Altschuh et al. (1999)								5.28E+03	EPI (PCKOCWIN)	2.00E-01	Biggar and Riggs (1974)	
Hexachlorobenzene	87-82-1	551.49	EPI	1.10E-03	2.81E-05	EPI (HenryWin)								3.38E+03	EPI (PCKOCWIN)	1.60E-04	Opperhuizen (1986)	
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2																	
Hexachlorobenzene	118-74-1	284.78	EPI	7.00E-02	1.70E-03	Warner et al. (1987)	2.044	CRC						3.38E+03	EPI (PCKOCWIN)	6.20E-03	Farmer et al. (1976)	
Hexachlorobutadiene	87-68-3	260.76	EPI	4.20E-01	1.03E-02	Warner et al. (1987)	1.556	CRC						9.94E+02	EPI (PCKOCWIN)	2.90E+00	Banerjee et al. (1980)	
Hexachlorocyclohexane, Alpha-	319-84-6	290.83	EPI	5.00E-04	1.22E-05	Altschuh et al. (1999)								3.38E+03	EPI (PCKOCWIN)	8.00E+00	Chem. Inspect. Test Inst. (1992)	
Hexachlorocyclohexane, Beta-	319-85-7	290.83	EPI	1.80E-05	4.40E-07	Altschuh et al. (1999)	1.89	CRC						3.38E+03	EPI (PCKOCWIN)	8.00E+00	Chem. Inspect. Test Inst. (1992)	
Hexachlorocyclohexane, Gamma- (Lindane)	58-99-9	290.83	EPI	2.10E-04	5.14E-06	Altschuh et al. (1999)								3.38E+03	EPI (PCKOCWIN)	8.00E+00	Chem. Inspect. Test Inst. (1992)	
Hexachlorocyclohexane, Technical	608-73-1	290.83	EPI	1.80E-05	4.29E-07	EPI (Henry Win) 1								3.38E+03	EPI (PCKOCWIN)	8.00E+00	Chem. Inspect. Test Inst. (1992)	
Hexachlorocyclopentadiene	77-47-4	272.77	EPI	1.10E+00	2.70E-02	Wolfe et al. (1982)	1.7019	CRC						1.67E+03	EPI (PCKOCWIN)	1.80E+00	Callahan et al. (1979)	
Hexachloroethane	67-72-1	236.74	EPI	1.60E-01	3.89E-03	Munz and Roberts (1987)	2.091	CRC						2.25E+02	EPI (PCKOCWIN)	5.00E+01	Horvath et al. (1999)	
Hexachlorophene	70-30-4	406.91	EPI	2.20E+11	5.48E-13	EPI (HenryWin)								6.31E+05	EPI (PCKOCWIN)	1.40E+02	Yalkowsky and Dannenfeiser (1992)	
Hexachloro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	309.37	EPI	2.60E-12	6.25E-08	EPI (HenryWin)	1.82	CRC						1.95E+01	EPI (PCKOCWIN)	1.40E+02	Yalkowsky and Dannenfeiser (1992)	
Hexamethylene Diisocyanate, 1,6-	822-06-0	168.20	EPI	2.00E-03	4.80E-05	EPI (HenryWin)	1.0528	CRC	4.00E-02	EPA 2002	7.20E-06	EPA 2002	5.86E+03	EPI (PCKOCWIN)	1.17E+02	EPI (WSKOWWIN)		
Hexane, N-	110-54-3	86.18	EPI	7.40E-01	1.80E+00	EPI (Henry Win) 1	0.6606	CRC	7.30E-02	EPA 2002	8.20E-06	EPA 2002	1.95E+02	EPI (PCKOCWIN)	9.50E+00	McAuliffe (1966)		
Hexanedioic Acid	124-09-4	146.14	EPI	1.90E-10	4.71E-12	EPI (Henry Win) 1	1.36	CRC						2.15E+01	EPI (PCKOCWIN)	3.08E+04	Yalkowsky and Dannenfeiser (1992)	
Hexazine	51235-04-2	252.32	EPI	9.20E-11	2.26E-12	EPI (Henry Win) 1	1.25	CRC						6.14E+02	EPI (PCKOCWIN)	3.30E+04	Tomlin (1997)	
Hydrazine	302-01-2	32.05	EPI				1.0036	CRC								1.00E+06	Lange's (15th Ed.), Perry's (7th Ed.), estimated based on miscibility	
Hydrazine Sulfate	10439-83-2	128.10	EPI				1.378	CRC								3.08E+04	Perry's (7th Ed.), measured at 22 degrees Celsius.	
Hydrogen Chloride	7647-01-0	35.45	EPI													7.20E+05	Lange's (15th Ed.), measured at 20 degrees Celsius.	
Hydrogen Fluoride	7664-39-3	20.01	EPI															
Hydrogen Sulfide	7783-06-4	34.08	EPI													5.13E+03	Lange's (15th Ed.), measured at 25 degrees Celsius	
Hydroquinone	123-31-9	110.11	EPI	1.90E-09	4.73E-11	EPI (Henry Win) 1	1.33	CRC						4.34E+02	EPI (PCKOCWIN)	7.20E+04	Granger and Nelson (1921)	
Imazalil	35554-44-0	297.19	EPI	1.10E-07	2.59E-09	EPI (Henry Win) 1	1.243	CRC						1.84E+03	EPI (PCKOCWIN)	1.80E+02	Tomlin (1994)	
Imazaquin	81338-37-7	311.34	EPI	2.80E-16	6.91E-18	EPI (HenryWin)								4.93E+03	EPI (PCKOCWIN)	9.00E+01	Tomlin (1997)	
Iodine	7553-56-2	330.17	EPI	5.10E-09	1.25E-10	EPI (Henry Win) 1								1.41E+02	EPI (PCKOCWIN)	1.39E+01	Wauchope et al. (1991a)	
Iprodione	36734-19-7	55.85	EPI				7.87	CRC								0.00E+00	Lange's (15th Ed.), considered insoluble	
Iron	78-83-1	74.12	EPI	4.00E-04	9.78E-06	Snider and Dawson (1985)	0.8018	CRC	9.00E-02	EPA 2002	1.00E-05	EPA 2002	2.05E+00	EPI (PCKOCWIN)	8.50E+04	Valvani et al. (1981)		
Isobutyl Alcohol	78-59-1	138.21	EPI	2.70E-04	6.64E-06	EPI (Henry Win) 1	0.9255	CRC	5.30E-02	EPA 2002	7.50E-06	EPA 2002	5.83E+01	EPI (PCKOCWIN)	1.20E+04	Parrish (1983)		
Isophorone	308-37-7	111.15	EPI	1.11E-04	2.75E-06	EPI (Henry Win) 1								6.97E+03	EPI (PCKOCWIN)	1.10E-01	Probst et al. (1975)	
Isopropanol	67-63-0	60.10	EPI	3.30E-04	8.10E-06	Taft et al. (1985)	0.7809	CRC	1.00E-01	EPA 2002	1.10E-05	EPA 2002	1.06E+00	EPI (PCKOCWIN)	1.00E+06	Riddick et al. (1986)		
Isopropyl Methyl Phosphonic Acid	1832-54-8	138.10	EPI	2.80E-07	6.88E-09	EPI (HenryWin)								5.52E+00	EPI (PCKOCWIN)	5.04E+04	EPI (WSKOWWIN)	
Isoxaben	82558-50-7	332.40	EPI	5.20E-08	1.27E-09	EPI (Henry Win) 1								2.93E+03	EPI (PCKOCWIN)	1.42E+00	Tomlin (1994)	
JP-7	NA																	
Kert	23950-58-5	256.13	EPI	4.00E-07	9.77E-09	EPI (Henry Win) 1	7.7	CRC		EPA 1987		EPA 1987	1.59E+03	EPI (PCKOCWIN)	1.50E+01	Yalkowsky and Dannenfeiser (1992)		
Lactofen	77501-63-4	461.78	EPI	2.30E-08	5.73E-10	EPI (HenryWin)								2.54E+04	EPI (PCKOCWIN)	1.00E-01	Reddy et al. (1994)	
Lead Compounds																		
-Lead and Compounds	7439-92-1	207.20	EPI				11.3	CRC								0.00E+00	CRC 85th edition, assigned a water solubility value of 0	
-Tetraethyl Lead	78-00-2	323.45	EPI	2.30E+01	5.68E-01	Feldhake and Stevens (1963)	1.653	CRC						7.58E+02	EPI (PCKOCWIN)	2.30E-01	Feldhake and Stevens (1963)	
Linuron	330-55-2	249.10	EPI	2.60E-07	6.25E-09	EPI (Henry Win) 1								3.50E+02	EPI (PCKOCWIN)	7.50E+01	USDA Pest. Prop. Database	
Lithium	7439-95-2	6.94	EPI				0.534	CRC								0.00E+00	CRC 85th edition, reacts in water and/or decomposes.	
Lithium Perchlorate	7731-03-6	173.02	EPI				2.428	CRC								5.87E+05	CRC 85th edition, measured at 25 degrees Celsius.	
Londax	83055-99-6	410.40	EPI	1.50E-13	3.78E-15	EPI (Henry Win) 1								3.33E+01	EPI (PCKOCWIN)	1.20E+02	Wauchope et al. (1991a)	
MCPA	94-74-6	200.62	EPI	5.40E-08	1.33E-09	EPI (Henry Win) 1								2.94E+01	EPI (PCKOCWIN)	6.30E+02	Yalkowsky and Dannenfeiser (1992)	
MCPB	94-81-5	228.68	EPI	1.10E-07	2.71E-09	EPI (Henry Win) 1								1.00E+02	EPI (PCKOCWIN)	4.80E+01	Yalkowsky and Dannenfeiser (1992)	
MCCP	93-65-2	214.65	EPI	4.00E-08	9.85E-10	EPI (Henry Win) 1								1.00E+01	EPI (PCKOCWIN)	8.60E+02	Tomlin (1997)	
Malathion	121-75-5	330.35	EPI	2.00E-07	4.89E-09	Fandinger and Glotfelty (1990)	1.2076	CRC						3.05E+01	EPI (PCKOCWIN)	1.53E+02	Bowman and Sans (1983)	
Maleic Anhydride	108-31-6	98.06	EPI	1.60E-04	3.93E-06	EPI (HenryWin)	1.314	CRC	8.80E-02	EPA 2002	1.10E-05	EPA 2002	1.00E+00	EPI (PCKOCWIN)	4.91E+03	EPI (WSKOWWIN)		
Maleic Hydrazide	123-33-1	112.09	EPI	1.10E-09	2.65E-11	EPI (HenryWin)								1.04E+01	EPI (PCKOCWIN)	4.51E+03	Tomlin (1994)	
Malononitrile	109-77-3	66.06	EPI	5.20E-07	1.27E-08	EPI (HenryWin)	1.191	CRC	1.20E-01	EPA 2002	9.50E-05	EPA 2002	1.53E+01	EPI (PCKOCWIN)	1.33E+05	Hughes (1981)		
Mancozeb	8018-01-7	212.36	EPI	2.30E-05	5.64E-07	EPI (HenryWin)								1.00E+01	EPI (PCKOCWIN)	6.20E+00	USDA Pest. Prop. Database	
Maneb	12427-38-2	212.36	EPI	2.30E-05	5.64E-07	EPI (HenryWin)								1.00E+01	EPI (PCKOCWIN)	6.20E+00	USDA Pest. Prop. Database	
Manganese (Diet)	7439-96-5	54.94	EPI				7.3	CRC								0.00E+00	Lange's (15th Ed.), reacts in water and/or decomposes.	
Manganese (Water)	7439-96-5	54.94	EPI				7.3	CRC								0.00E+00	Lange's (15th Ed.), reacts in water and/or decomposes.	
Mephosfolan	950-10-7	269.32	EPI	4.90E-09	1.19E-10	EPI (HenryWin)								4.98E+02	EPI (PCKOCWIN)	5.70E+01	Tomlin (1994)	
Mepiquat Chloride	24307-26-4	149.67	EPI	1.80E-10	4.31E-12	EPI (HenryWin)								1.74E+02	EPI (PCKOCWIN)	5.00E+05	Tomlin (1997)	
Mercury Compounds																		
-Mercuric Chloride	7487-94-7	271.50	EPI				5.6											

Contaminant	Molecular Weight		Henry's Law Constants				Density (g/cm <sup>3</sup> )		Diffusivity in Air (cm <sup>2</sup> /s)		Diffusivity in Water (cm <sup>2</sup> /s)		Organic carbon partition coefficient (K <sub>oc</sub> )	Solubility in water (mg/L)			
	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density	Density Ref	Dia	Dia Ref	D <sub>w</sub>	D <sub>w</sub> Ref	Koc	Koc Ref	S	S Ref	
Metolachlor	51218-45-2	283.80	EPI	3.70E-07	9.00E-09	Chesters et al. (1989)	1.12	CRG					2.92E+02	EPI (PCKOCWIN)	5.30E+02	Wauchope et al. (1992)	
Metribuzin	21087-64-9	214.29	EPI	4.80E-09	1.17E-10	EPI (Henry Win) 1	1.31	CRG					1.20E+03	EPI (PCKOCWIN)	1.05E+03	Tomlin (1994)	
Mirex	2385-85-5	545.55	EPI	3.30E-02	8.11E-04	Yin and Hassett (1986)							4.73E+05	EPI (PCKOCWIN)	8.50E-02	Yalkowsky and Dannenfeiser (1992)	
Molinate	2212-67-1	167.30	EPI	1.70E-04	4.10E-06	Sagebiel et al. (1992)	1.083	CRG	3.20E-02	EPA 2002	6.80E-06	EPA 2002	2.86E+02	EPI (PCKOCWIN)	9.70E+02	Wauchope et al. (1991a)	
Molybdenum	7439-98-7	95.94	EPI				10.2	CRG								0.00E+00	CRG 85th edition, considered insoluble
Monochloramine	10599-90-3	51.48	EPI														
Monomethylamine	100-61-8	107.16	EPI	3.60E-04	8.88E-06	Abraham et al. (1994)	0.9891	CRG	7.20E-02	EPA 2002	9.10E-06	EPA 2002	6.50E+01	EPI (PCKOCWIN)	5.62E+03	Yalkowsky and Dannenfeiser (1992)	
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	260.34	EPI	8.40E-09	2.05E-10	EPI (HenryWin)							1.29E+05	EPI (PCKOCWIN)	7.35E+00	EPI (WSKOWWIN)	
Naled	300-76-5	380.79	EPI	2.70E-03	6.51E-05	EPI (Henry Win) 1	1.96	CRG					9.60E+01	EPI (PCKOCWIN)	1.50E+00	USDA Pest. Prop. Database	
Naphthylamine, 2-	91-59-8	143.19	EPI	3.30E-06	8.10E-08	EPI (HenryWin)	1.6414	CRG					2.98E+03	EPI (PCKOCWIN)	6.40E+00	EPI (WSKOWWIN)	
Napropamide	15299-99-7	271.36	EPI	3.40E-08	8.41E-10	EPI (Henry Win) 1							1.15E+04	EPI (PCKOCWIN)	7.30E+01	Yalkowsky and Dannenfeiser (1992)	
Nickel Refinery Dust	NA																
Nickel Soluble Salts	7440-02-0	58.69	EPI														
Nickel Sulfide	12035-72-2						5.87	CRG									
Nitrate	14797-55-8	62.00	EPI				1.5129	CRG (nitric acid value)									
Nitric Acid	14797-55-0	47.01	EPI														
Nitroaniline, 2-	88-74-4	138.13	EPI	2.40E-06	5.90E-08	Altschuh et al. (1999)	0.9015	CRG					5.27E+01	EPI (PCKOCWIN)	1.47E+03	Gross et al. (1933)	
Nitroaniline, 4-	100-01-6	138.13	EPI	5.20E-08	1.26E-09	Altschuh et al. (1999)	1.424	CRG					5.16E+01	EPI (PCKOCWIN)	7.28E+02	Gross and Saylor (1931)	
Nitrobenzene	98-95-3	123.11	EPI	9.80E-04	2.40E-05	Warner et al. (1987)	1.2037	CRG	6.80E-02	EPA 2002	9.40E-06	EPA 2002	1.91E+02	EPI (PCKOCWIN)	2.09E+03	Banerjee et al. (1980)	
Nitrofurantoin	67-20-9	238.16	EPI	5.40E-11	1.33E-12	EPI (HenryWin)							2.62E+02	EPI (PCKOCWIN)	1.91E+01	Yalkowsky and Dannenfeiser (1992)	
Nitrofurazone	59-87-0	198.14	EPI	1.30E-11	3.10E-13	EPI (HenryWin)							3.76E+02	EPI (PCKOCWIN)	2.10E+02	Beilstein	
Nitroglucoside	55-63-0	227.09	EPI	4.00E-06	9.87E-08	EPI (Henry Win) 1	1.5931	CRG					1.31E+03	EPI (PCKOCWIN)	1.38E+03	Seidel (1941)	
Nitroguanidine	556-88-7	104.07	EPI	1.80E-10	4.49E-12	EPI (HenryWin)							2.54E+01	EPI (PCKOCWIN)	4.40E+03	Yalkowsky and Dannenfeiser (1992)	
Nitromethane	75-52-5	61.04	EPI	1.20E-03	2.86E-05	Gaffney et al. (1987)	1.1371	CRG	1.20E-01	EPA 2002	1.40E-05	EPA 2002	8.18E+00	EPI (PCKOCWIN)	1.11E+05	Riddick et al. (1986)	
Nitropropane, 2-	79-46-9	89.09	EPI	4.90E-03	1.19E-04	EPI (Henry Win) 1	0.9821	CRG	8.50E-02	EPA 2002	1.00E-05	EPA 2002	2.50E+01	EPI (PCKOCWIN)	1.70E+04	Baker and Bolmeier (1981)	
Nitroso-N-ethylurea, N-	759-73-9	117.11	EPI	5.40E-09	1.32E-10	EPI (HenryWin)							3.59E+01	EPI (PCKOCWIN)	1.30E+04	IARC (1978)	
Nitroso-N-methylurea, N-	684-93-5	103.08	EPI	4.10E-09	9.91E-11	EPI (HenryWin)							1.86E+01	EPI (PCKOCWIN)	1.44E+04	Mirvish et al. (1976)	
Nitroso-N-propylamine, N-	1582-25-3	123.11	EPI	4.40E-04	1.32E-08	Mirvish et al. (1978)			6.50E-02	EPA 1987	7.60E-06	EPA 1987	1.65E+03	EPI (PCKOCWIN)	1.65E+03	Mirvish et al. (1976)	
Nitroso-di-N-propylamine, N-	621-64-7	130.19	EPI	2.20E-04	5.38E-06	Mirvish et al. (1976)	0.9163	CRG	5.70E-02	EPA 2002	7.80E-06	EPA 2002	4.85E+02	EPI (PCKOCWIN)	1.30E+04	Mirvish et al. (1976)	
Nitrosodiethanolamine, N-	1116-54-7	134.14	EPI	9.30E-15	2.28E-16	EPI (HenryWin)							1.00E+00	EPI (PCKOCWIN)	1.00E+06	IARC (1978)	
Nitrosodimethylamine, N-	55-18-5	102.14	EPI	1.50E-04	3.63E-06	Mirvish et al. (1976)	0.9422	CRG	5.60E-02	EPA 2002	9.10E-06	EPA 2002	1.43E+02	EPI (PCKOCWIN)	1.06E+05	Yalkowsky and Dannenfeiser (1992)	
Nitrosodimethylamine, N-	62-75-9	74.08	EPI	7.40E-05	1.82E-06	Mirvish et al. (1976)	1.0048	CRG	9.90E-02	EPA 2002	1.20E-05	EPA 2002	3.82E+01	EPI (PCKOCWIN)	1.00E+06	Yalkowsky and Dannenfeiser (1992)	
Nitrosodiphenylamine, N-	96-30-6	199.23	EPI	4.90E-05	1.21E-06	EPI (HenryWin)			5.00E-02	EPA 1987	6.50E-06	EPA 1987	6.15E+03	EPI (PCKOCWIN)	3.50E+01	Banerjee et al. (1980)	
Nitrosomethylmethanamine, N-	10598-95-6	88.11	EPI	1.70E-05	4.25E-07	EPI (Henry Win) 1			9.60E-02	EPA 1987	1.10E-05	EPA 1987	7.38E+01	EPI (PCKOCWIN)	7.38E+01	IARC (1978)	
Nitrosomorpholine [N-]	59-89-2	116.12	EPI	1.00E-06	2.45E-08	EPI (HenryWin)							1.59E+01	EPI (PCKOCWIN)	1.00E+06	EPI (WSKOWWIN)	
Nitrosopiperidine [N-]	100-75-4	114.15	EPI	3.50E-05	8.44E-07	EPI (HenryWin)	1.0631	CRG					2.92E+02	EPI (PCKOCWIN)	7.65E+04	EPI (WSKOWWIN)	
Nitrosopyrrolidine, N-	930-55-2	100.12	EPI	2.00E-06	4.89E-08	Mirvish et al. (1976)	1.085	CRG					1.59E+02	EPI (PCKOCWIN)	1.00E+06	Yalkowsky and Dannenfeiser (1992)	
Nitrotoleune, m-	99-08-1	137.14	EPI	3.80E-04	9.30E-06	Altschuh et al. (1999)	1.1581	CRG	5.90E-02	EPA 2002	8.70E-06	EPA 2002	3.09E+02	EPI (PCKOCWIN)	5.00E+02	Yalkowsky and Dannenfeiser (1992)	
Nitrotoleune, o-	98-72-2	137.14	EPI	5.10E-04	1.25E-05	Altschuh et al. (1999)	1.1611	CRG	5.90E-02	EPA 2002	8.70E-06	EPA 2002	3.16E+02	EPI (PCKOCWIN)	6.50E+02	Yalkowsky and Dannenfeiser (1992)	
Nitrofurazone, p-	137-99-0	137.14	EPI	2.30E-04	5.83E-06	Altschuh et al. (1999)	1.1038	CRG	5.70E-02	EPA 2002	8.40E-06	EPA 2002	3.09E+02	EPI (PCKOCWIN)	6.50E+02	Gross et al. (1933)	
Nitrofurazone	27314-13-2	303.67	EPI	1.40E-08	3.43E-10	EPI (Henry Win) 1							5.67E+03	EPI (PCKOCWIN)	3.37E+01	Tomlin (1997)	
Nustar	85509-19-9	315.40	EPI	2.10E-05	5.06E-07	EPI (HenryWin)							1.77E+06	EPI (PCKOCWIN)	5.40E+01	Tomlin (1997)	
Octabromodiphenyl Ether	32536-52-0	801.38	EPI	1.00E-05	2.56E-07	EPI (HenryWin)							1.43E+05	EPI (PCKOCWIN)	1.11E-08	EPI (WSKOWWIN)	
Octahydro-1,3,5,7-tetraazirino-1,3,5,7-tetra (HMx)	269141-0	296.16	EPI	3.50E-08	8.67E-10	EPI (HenryWin)							1.85E+03	EPI (PCKOCWIN)	9.44E+03	EPI (WSKOWWIN)	
Octahydro-1,3,5,7-tetraazirino-1,3,5,7-tetra (HMx)	152-16-9	286.25	EPI	2.80E-15	6.31E-17	EPI (HenryWin)	1.09	CRG					8.03E+02	EPI (PCKOCWIN)	8.03E+02	Yalkowsky and Dannenfeiser (1992)	
Oxazolin	19044-88-3	346.36	EPI	7.80E-09	1.91E-09	EPI (HenryWin)							1.22E+03	EPI (PCKOCWIN)	2.50E+00	USDA Pest. Prop. Database	
Oxadiazon	19666-30-9	345.23	EPI	3.00E-06	7.27E-08	EPI (Henry Win) 1							3.50E+03	EPI (PCKOCWIN)	7.00E-01		
Oxamyl	23135-22-0	219.26	EPI	9.70E-09	2.37E-10	EPI (Henry Win) 1	0.97	CRG					1.00E+01	EPI (PCKOCWIN)	2.80E+05	Tomlin (1994)	
Parabutozole	76738-62-0	293.80	EPI	3.40E-09	8.28E-11	EPI (Henry Win) 1	1.22	CRG					1.23E+04	EPI (PCKOCWIN)	2.60E+01	Tomlin (1994)	
Pararquat Dichloride	1910-42-5	257.16	EPI	1.30E-11	3.22E-13	EPI (HenryWin)							1.41E+03	EPI (PCKOCWIN)	6.20E+05	Wauchope et al. (1992)	
Parathion	55-38-2	291.26	EPI	9.20E-05	2.38E-07	Tomlin (1997)	1.2681	CRG					1.78E+03	EPI (PCKOCWIN)	1.78E+03	Tomlin (1997)	
Pebulate	11147-71-2	203.35	EPI	9.70E-03	2.37E-04	EPI (Henry Win) 1	0.9458	CRG					4.75E+02	EPI (PCKOCWIN)	1.00E+02	USDA Pest. Prop. Database	
Pendimethalin	40487-42-1	281.31	EPI	3.50E-05	8.56E-07	Fendinger and Glotfelty (1990)	1.19	CRG					2.62E+03	EPI (PCKOCWIN)	2.75E-01	Humburg et al. (1989)	
Pentabromodiphenyl Ether	32534-81-9	564.69	EPI	1.40E-04	3.54E-06	EPI (HenryWin)							3.05E+04	EPI (PCKOCWIN)	3.94E-04	EPI (WSKOWWIN)	
Pentabromodiphenyl ether, 2,2',4,4',5'-(BDE-99)	60348-60-9						2.28	Flemming et al 2000 (IRIS Profile)									
Pentachlorobenzene	608-93-5	250.34	EPI	2.90E-02	7.03E-04	Ten Hulscher et al. (1992)	1.8342	CRG					2.00E+03	EPI (PCKOCWIN)	8.31E-01	Yalkowsky and Dannenfeiser (1992)	
Pentachlorobiphenyl	76-01-7	292.30	EPI	7.90E-02	1.94E-03	EPI (HenryWin)	1.6796	CRG					1.54E+02	EPI (PCKOCWIN)	4.80E+02	EPI (WSKOWWIN)	
Pentachloronitrobenzene	82-68-8	295.34	EPI	1.80E-03	4.42E-05	EPI (Henry Win) 1	1.718	CRG					2.41E+03	EPI (PCKOCWIN)	4.40E-01	Yalkowsky and Dannenfeiser (1992)	
Pentachlorophenol	87-86-5	266.34	EPI	1.00E-06	2.45E-08	Hellman (1987)	1.978	CRG					3.38E+03	EPI (PCKOCWIN)	1.40E+01	Yalkowsky, SH and Dannenfeiser, RM (1992)	
Perchlorate and Perchlorate Salts	14797-73-0	117.49	MW Other													2.45E+05	CRG 85th edition, measured at 25 degrees Celsius.
Permethrin	52645-53-1	391.30	EPI	7.60E-05	1.87E-06	EPI (Henry Win) 1	1.23	CRG					1.78E+05	EPI (PCKOCWIN)	6.00E-03	USDA Pest. Prop. Database	
Phenacetin	62-44-2	173.22	EPI	8.70E-09	2.13E-10	EPI (HenryWin)							5.00E+01	EPI (PCKOCWIN)	7.68E+02	EPI (WSKOWWIN)	
Phenazolidinopham	300-32-2	300.32	EPI	1.90E-02	8.41E-13	EPI (Henry Win) 1							2.73E+03	EPI (PCKOCWIN)	4.70E+02	Wauchope et al. (1991a)	
Phenol	108-95-2	94.11	EPI	1.40E-05	3.33E-07	Gaffney et al. (1987)	1.0545	CRG	8.30E-02	EPA 2002	1.00E-05	EPA 2002	2.68E+02	EPI (PCKOCWIN)	8.28E+04	Southworth and Keller (1986)	
Phenylendiamine, m-	108-45-2	108.14	EPI	3.90E-09	9.53E-11	EPI (Henry Win) 1	1.0096	CRG					7.25E+01	EPI (PCKOCWIN)	2.38E+05	Stephen and Stephen (	

Contaminant	Molecular Weight		Henry's Law Constants				Density (g/cm <sup>3</sup> )		Diffusivity in Air (cm <sup>2</sup> /s)		Diffusivity in Water (cm <sup>2</sup> /s)		Organic carbon partition coefficient (K <sub>oc</sub> )		Solubility in water (mg/L)	
	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density	Density Ref	Dia	Dia Ref	Diw	Diw Ref	Koc	Koc Ref	S	S Ref
-Acenaphthene	83-32-9	154.21	EPI	7.40E-03	1.82E-04	Bamford et al. (1999)	1.222	CRG	5.10E-02	EPA 2002	8.30E-06	EPA 2002	6.12E+03	EPI (PCKOCWIN)	3.90E+00	Miller et al. (1985)
-Anthracene	120-12-7	178.24	EPI	2.30E-03	5.56E-05	Alaee et al. (1996)	1.28	CRG	3.90E-02	EPA 2002	7.90E-06	EPA 2002	4.04E+04	EPI (PCKOCWIN)	4.34E-02	May et al. (1983)
-Benz[a]anthracene	56-55-3	228.30	EPI	4.90E-04	1.20E-05	Bamford et al. (1999)							2.31E+05	EPI (PCKOCWIN)	9.40E-03	May et al. (1978)
-Benzo[a]pyrene	50-32-8	252.32	EPI	1.90E-05	4.57E-07	Ten Hulscher et al. (1992)							7.87E+05	EPI (PCKOCWIN)	1.62E-03	May et al. (1983)
-Benzofluoranthene	8335-99-2	252.32	EPI	2.70E-05	6.57E-07	Ten Hulscher et al. (1992)							8.03E+04	EPI (PCKOCWIN)	1.50E-03	Yalkowsky and Dannenfeiser (1992)
-Benzokjfluoranthene	207-08-9	252.32	EPI	2.40E-05	5.84E-07	Ten Hulscher et al. (1992)							7.87E+05	EPI (PCKOCWIN)	8.00E-04	Pearlman et al. (1984)
-Chrysene	218-01-9	228.30	EPI	2.10E-04	5.23E-06	Bamford et al. (1999)	1.274	CRG					2.36E+05	EPI (PCKOCWIN)	1.03E-03	Miller et al. (1985)
-Dibenz[a,h]anthracene	53-70-3	278.36	EPI	5.00E-06	1.23E-07	EPI (HenryWin)							2.62E+06	EPI (PCKOCWIN)	1.03E-03	Shaw (1989)
-Dimethylbenz[a]anthracene, 7,12-	57-97-6	256.35	EPI	8.30E-05	2.03E-06	EPI (HenryWin)							6.59E+05	EPI (PCKOCWIN)	6.10E-02	EPI (WSKOWWIN)
-Fluoranthene	206-44-0	202.26	EPI	3.60E-04	8.86E-06	Ten Hulscher et al. (1992)	1.252	CRG					7.09E+04	EPI (PCKOCWIN)	1.80E+01	MacKay and Shiu (1977)
-Fluorene	86-73-7	166.22	EPI	3.90E-03	9.62E-05	Shiu and MacKay (1997)	1.203	CRG	4.40E-02	EPA 2002	7.90E-06	EPA 2002	1.13E+04	EPI (PCKOCWIN)	1.90E+01	Wauchope and Getzen (1972)
-Indeno[1,2,3-cd]pyrene	193-59-5	276.34	EPI	1.40E-05	3.48E-07	Ten Hulscher et al. (1992)							2.68E+06	EPI (PCKOCWIN)	1.20E-04	Pearlman et al. (1984)
-Methylnaphthalene, 1-	90-12-0	142.20	EPI	2.10E-02	5.14E-04	Altschuh et al. (1999)	1.0202	CRG	5.30E-02	EPA 2002	7.80E-06	EPA 2002	3.04E+03	EPI (PCKOCWIN)	2.50E+01	Volkmann et al. (1984)
-Methylnaphthalene, 2-	91-57-6	142.20	EPI	2.10E-02	5.18E-04	Altschuh et al. (1999)	1.0058	CRG	5.20E-02	EPA 2002	7.80E-06	EPA 2002	2.98E+03	EPI (PCKOCWIN)	2.48E+01	Yalkowsky and Dannenfeiser (1992)
-Naphthalene	91-20-3	128.18	EPI	1.80E-02	4.40E-04	Shiu and MacKay (1997)	1.0253	CRG	6.00E-02	EPA 2002	8.40E-06	EPA 2002	1.84E+03	EPI (PCKOCWIN)	3.10E+01	Pearlman et al. (1984)
-Pyrene	129-00-0	202.26	EPI	4.90E-04	1.19E-05	Shiu and MacKay (1997)	1.271	CRG	2.80E-02	EPA 2002	7.20E-06	EPA 2002	6.94E+04	EPI (PCKOCWIN)	1.35E-01	
Potassium Perchlorate	7778-74-7	138.55	EPI				2.52	CRG								
Prochloraz	6747-09-5	376.67	EPI	6.70E-07	1.64E-08	EPI (Henry Win) 1							2.68E+03	EPI (PCKOCWIN)	3.0E+01	Wauchope et al. (1991a)
Profluralin	26399-36-0	347.30	EPI	1.30E-02	3.15E-04	EPI (Henry Win) 1							1.83E+04	EPI (PCKOCWIN)	1.00E-01	Yalkowsky and Dannenfeiser (1992)
Prometon	225-30	225.30	EPI	1.30E-07	3.17E-09	EPI (Henry Win) 1							1.57E+02	EPI (PCKOCWIN)	7.50E+02	Tomlin (1994)
Propetryn	7287-19-6	241.36	EPI	5.40E-07	1.32E-08	EPI (Henry Win) 1	1.157	CRG					6.88E+02	EPI (PCKOCWIN)	3.30E+01	Wauchope et al. (1991a)
Prochlor	918-16-7	211.68	EPI	3.70E-06	9.15E-08	EPI (Henry Win) 1	1.242	CRG					2.70E+02	EPI (PCKOCWIN)	7.00E-02	Yalkowsky and Dannenfeiser (1992)
Propanil	709-98-8	218.08	EPI	7.00E-07	1.71E-08	EPI (Henry Win) 1	1.25	CRG					1.97E+02	EPI (PCKOCWIN)	1.52E+02	USDA Pest. Prop. Database
Propargite	2312-35-8	350.48	EPI	1.70E-06	4.15E-08	EPI (Henry Win) 1	1.1	CRG					1.38E+05	EPI (PCKOCWIN)	5.00E-01	Wauchope et al. (1991a)
Propargyl Alcohol	107-19-7	56.06	EPI	4.70E-05	1.15E-06	EPI (Henry Win) 1	0.9478	CRG	1.20E-01	EPA 2002	1.30E-05	EPA 2002	1.33E+00	EPI (PCKOCWIN)	1.00E+06	Yalkowsky and Dannenfeiser (1992)
Propazine	139-40-2	229.71	EPI	1.90E-07	4.60E-09	EPI (Henry Win) 1	1.162	CRG					3.56E+02	EPI (PCKOCWIN)	8.60E+00	Yalkowsky and Dannenfeiser (1992)
Propham	122-42-9	179.22	EPI	1.60E-06	3.85E-08	EPI (Henry Win) 1	1.09	CRG					1.28E+02	EPI (PCKOCWIN)	1.79E+02	Yalkowsky and Dannenfeiser (1992)
Propylaldehyde	60207-90-1	342.23	EPI	1.70E-07	4.12E-09	EPI (Henry Win) 1	1.27	CRG					5.56E+02	EPI (PCKOCWIN)	1.10E+02	Shiu et al. (1994)
Propionaldehyde	123-38-6	58.08	EPI	3.00E-03	7.34E-05	Buttery, RG et al (1996)	0.797	Chemfinder	1.10E-01	USEPA 2001	1.20E-05	USEPA 2001	2.76E+00	EPI (PCKOCWIN)	3.0E+05	Riddick, JA et al 1986
Propylene Glycol	57-55-6	76.10	EPI	5.40E-09	1.31E-10	EPI (HenryWin)	1.0361	CRG					1.00E+00	EPI (PCKOCWIN)	1.00E+06	
Propylene Glycol Dinitrate	6423-43-4	166.09	EPI	3.90E-05	9.42E-07	EPI (HenryWin)			6.30E-02	EPA 1987	7.30E-06	EPA 1987	6.77E+01	EPI (PCKOCWIN)	2.82E+03	EPI (WSKOWWIN)
Propylene Glycol Monoethyl Ether	1569-02-4	104.15	EPI	1.00E-06	2.45E-08	EPI (HenryWin)							1.00E+00	EPI (PCKOCWIN)	3.6E+05	EPI (WSKOWWIN)
Propylene Glycol Monomethyl Ether	107-98-2	90.12	EPI	3.80E-05	9.20E-07	Johanson and Dynesius (1988)	0.962	CRG	8.30E-02	EPA 2002	1.00E-05	EPA 2002	1.00E+00	EPI (PCKOCWIN)	1.00E+06	Dow Chem. Co. (1981)
Propylene Oxide	75-56-9	38.08	EPI	2.80E-03	6.96E-05	EPI (Henry Win) 1			1.30E-01	EPA 1987	1.50E-05	EPA 1987	2.32E+00	EPI (PCKOCWIN)	5.00E+05	Boyo et al. (1980)
Pursult	81335-77-5	289.34	EPI	4.30E-15	1.04E-16	EPI (HenryWin)							1.39E+03	EPI (PCKOCWIN)	1.40E+03	Tomlin (1994)
Pyridin	51630-58-1	419.91	EPI	1.40E-06	3.45E-08	EPI (Henry Win) 1	1.15	CRG					4.42E+05	EPI (PCKOCWIN)	2.00E-03	Tomlin (1997)
Pyridine	110-86-1	79.10	EPI	4.50E-04	1.10E-05	Hawthorne et al. (1985)	0.9819	CRG	9.30E-02	EPA 2002	1.10E-05	EPA 2002	3.30E+01	EPI (PCKOCWIN)	1.00E+06	Goe (1978)
Quinalphos	13593-03-8	298.30	EPI	2.30E-06	5.73E-08	EPI (Henry Win) 1	1.0977	CRG	6.20E-02	EPA 2002	8.70E-06	EPA 2002	1.84E+03	EPI (PCKOCWIN)	2.20E+01	Yalkowsky and Dannenfeiser (1992)
Quinoline	91-22-5	129.16	EPI	6.80E-05	1.67E-06	EPI (Henry Win) 1							1.84E+03	EPI (PCKOCWIN)	6.11E+03	Smith et al. (1978)
Refractory Ceramic Fibers	NA															
Rensmethrin	10453-86-8	338.45	EPI	5.40E-06	1.33E-07	EPI (Henry Win) 1							4.25E+05	EPI (PCKOCWIN)	3.00E-01	Tomlin (1997)
Ronnel	299-84-3	321.54	EPI	1.30E-03	3.20E-05	EPI (Henry Win) 1	1.44	CRG					2.01E+03	EPI (PCKOCWIN)	1.00E+00	Suntto et al. (1988)
Rotenone	83-79-4	394.43	EPI	4.60E-12	1.12E-13	EPI (HenryWin)							3.47E+05	EPI (PCKOCWIN)	2.00E-01	Augustijn-Beckers et al. (1994)
Safrole	94-59-7	162.19	EPI	3.70E-04	9.07E-06	EPI (HenryWin)	1.1	CRG					2.98E+02	EPI (PCKOCWIN)	7.60E+01	EPI (WSKOWWIN)
Savay	352-7857-05-0	137.99	EPI	9.70E-07	2.37E-08	EPI (Henry Win) 1							4.08E+03	EPI (PCKOCWIN)	5.00E-01	Tomlin (1994)
Selenous Acid	7783-00-8	128.97	EPI													
Selenium	7782-49-2	80.98	EPI													
Selenourea	630-10-4	123.02	EPI										1.98E+01	EPI (PCKOCWIN)	1.00E+06	EPI (WSKOWWIN)
Sethoxydim	74051-80-2	327.49	EPI	8.80E-10	2.16E-11	EPI (Henry Win) 1	1.043	CRG					2.85E+03	EPI (PCKOCWIN)	2.50E+01	Tomlin (1997)
Silver	7440-22-4	107.87	EPI				10.5	CRG								
Simazine	122-34-9	201.68	EPI	3.90E-08	9.62E-10	EPI (Henry Win) 1	1.302	CRG					1.49E+02	EPI (PCKOCWIN)	0.00E+00	Lange's (15th Ed.), Assigned a water solubility value of 0
Sodium Azilofluorfen	62476-59-9	383.65	EPI	2.50E-09	6.05E-11	EPI (HenryWin)							3.13E+03	EPI (PCKOCWIN)	2.50E+05	USDA Pest. Prop. Database
Sodium Azide	26628-22-8	65.01	EPI				1.846	CRG								
Sodium Diethylidithiocarbamate	148-18-5	171.25	EPI										1.79E+01	EPI (PCKOCWIN)	1.00E+06	EPI (WSKOWWIN)
Sodium Fluoride	7681-49-4	41.99	EPI				2.78	CRG								
Sodium Fluoroacetate	62-74-8	100.03	EPI	4.50E-05	1.09E-06	EPI (HenryWin)			8.80E-02	EPA 1987	1.00E-05	EPA 1987	1.20E+00	EPI (PCKOCWIN)	1.11E+06	
Sodium Metavanadate	13718-26-8															
Sodium Perchlorate	7601-89-0	122.44	EPI				2.52	CRG								
Stirofos (Tetrachlorovinylphos)	961-11-5	365.97	EPI	7.50E-08	1.84E-09	EPI (Henry Win) 1							2.87E+02	EPI (PCKOCWIN)	0.00E+00	USDA Pest. Prop. Database
Strontium, Stable	7440-24-6	87.62	EPI				2.64	CRG								
Styrene	57-24-9	334.42	EPI	2.40E-12	5.96E-14	EPI (HenryWin)	1.36	CRG								
Syngene	100-42-5	104.15	EPI	1.10E-01	2.75E-03	Book (1976)	0.9016	CRG	7.10E-02	EPA 2002	8.80E-06	EPA 2002	6.42E+03	EPI (PCKOCWIN)	1.60E+02	Seidell (1941)
Syngene bis(4-chlorobenzene), 1,1'-	80-07-9	287.16	EPI	5.60E-06	1.37E-07	EPI (HenryWin)							7.62E+03	EPI (PCKOCWIN)	3.10E+02	Yalkowsky and Dannenfeiser (1992)
Systhane	89671-89-0	288.78	EPI	1.70E-07	4.28E-09	EPI (Henry Win) 1							1.14E+05	EPI (PCKOCWIN)	1.42E+02	Tomlin (1994)
TCMTB	21564-17-0	238.34	EPI	2.70E-10	6.49E-12	EPI (Henry Win) 1							3.71E+03	EPI (PCKOCWIN)	1.25E+02	Brownlee et al. (1992)
Tebuthiuron	34014-18-1	228.31	EPI	4.90E-09	1.20E-10	USDA Pest. Prop. Database							2.28E+01	EPI (PCKOCWIN)	2.50E+03	Tomlin (1997)
Temephos	3383-96-8	466.46	EPI	8.00E-08	1.96E-09	EPI (HenryWin)	1.32	CRG					1.56E+06	EPI (PCKOCWIN)	2.70E-01</	

Contaminant	Molecular Weight		Henry's Law Constants			Density (g/cm <sup>3</sup> )		Diffusivity in Air (cm <sup>2</sup> /s)		Diffusivity in Water (cm <sup>2</sup> /s)		Organic carbon partition coefficient (L/kg)		Solubility in water (mg/L)		
	CAS No.	MW	MW Ref	H <sup>1</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>1</sup> and HLC Ref	Density	Density Ref	Dia	Dia Ref	D <sub>w</sub>	D <sub>w</sub> Ref	Koc	Koc Ref	S	S Ref
Tributyl Phosphate	126-73-8	266.32	EPI	6.10E-06	1.50E-07	EPI (HenryWin)	0.9727	CRC					1.89E+03	EPI (PCKOCWIN)	2.80E+02	EPI (WSKOWWIN)
Tributyltin Compounds	NA															
Tributyltin Oxide	56-35-9	596.12	EPI	3.90E+03	9.45E+01	EPI (HenryWin)							3.75E+07	EPI (PCKOCWIN)	1.00E+02	EPI (WSKOWWIN)
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	187.38	EPI	2.20E-01	5.26E-01	EPI (HenryWin)	1.5635	CRC	3.80E-02	EPA 2002	8.60E-06	EPA 2002	2.25E+02	EPI (PCKOCWIN)	1.70E+02	EPI (WSKOWWIN)
Trichloroethylene HCl, 2,4,6-	33963-50-2	232.93	EPI	2.90E-12	7.18E-14	EPI (HenryWin)							3.83E+02	EPI (PCKOCWIN)	1.10E+05	EPI (WSKOWWIN)
Trichloroaniline, 2,4,6-	634-93-5	196.46	EPI	5.50E-05	1.34E-06	EPI (HenryWin)							1.98E+02	EPI (PCKOCWIN)	4.00E+01	EPI (WSKOWWIN)
Trichlorobenzene, 1,2,4-	120-82-1	181.45	EPI	5.80E-02	1.42E-03	EPI (HenryWin)	1.459	CRC	4.00E-02	EPA 2002	8.40E-06	EPA 2002	7.18E+02	EPI (PCKOCWIN)	4.90E+01	EPI (WSKOWWIN)
Trichloroethane, 1,1,1-	71-55-6	133.41	EPI	7.00E-01	1.72E-02	EPI (HenryWin)	1.339	CRC	6.50E-02	EPA 2002	9.60E-06	EPA 2002	4.86E+01	EPI (PCKOCWIN)	1.28E+03	EPI (WSKOWWIN)
Trichloroethane, 1,1,2-	79-00-5	133.41	EPI	3.40E-02	8.24E-04	Leighton and Calo (1981)	1.4397	CRC	6.70E-02	EPA 2002	1.00E-05	EPA 2002	6.77E+01	EPI (PCKOCWIN)	1.10E+03	Talalan et al. (1986)
Trichloroethylene	79-01-6	131.39	EPI	4.00E-01	9.85E-03	EPI (HenryWin)	1.4642	CRC	6.90E-02	EPA 2002	1.00E-05	EPA 2002	6.77E+01	EPI (PCKOCWIN)	1.28E+03	EPI (WSKOWWIN)
Trichlorofluoromethane	75-69-4	137.37	EPI	4.00E+00	9.70E-02	EPI (HenryWin)	1.4879	CRC	6.50E-02	EPA 2002	1.00E-05	EPA 2002	4.86E+01	EPI (PCKOCWIN)	1.10E+03	EPI (WSKOWWIN)
Trichlorophenol, 2,4,5-	95-95-4	197.45	EPI	6.60E-05	1.62E-06	EPI (Henry Win) 1			5.60E-02	EPA 1987	6.50E-06	EPA 1987	1.19E+03	EPI (PCKOCWIN)	1.20E+03	Leuenberger et al. (1985a)
Trichlorophenol, 2,4,6-	88-06-2	197.45	EPI	1.10E-04	2.60E-06	EPI (Henry Win) 1	1.4901	CRC	3.10E-02	EPA 2002	8.10E-06	EPA 2002	1.19E+03	EPI (PCKOCWIN)	8.00E+02	Neely (1984)
Trichlorophenoxy Propionic Acid, 2(2,4,5-	93-72-1	269.51	EPI	3.70E-07	9.06E-09	EPI (HenryWin)							8.04E+01	EPI (PCKOCWIN)	2.00E+02	EPI (WSKOWWIN)
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	255.49	EPI	1.90E-06	4.66E-08	EPI (HenryWin)							4.86E+01	EPI (PCKOCWIN)	2.78E+02	EPI (WSKOWWIN)
Trichloropropane, 1,1,2-	598-77-6	147.43	EPI	1.30E-02	3.17E-04	EPI (HenryWin)	1.372	CRC	5.70E-02	EPA 2002	9.20E-06	EPA 2002	1.07E+02	EPI (PCKOCWIN)	1.50E+03	EPI (WSKOWWIN)
Trichloropropane, 1,2,3-	96-18-4	147.43	EPI	1.40E-02	3.43E-04	EPI (HenryWin)	1.3889	CRC	5.70E-02	EPA 2002	9.20E-06	EPA 2002	1.31E+02	EPI (PCKOCWIN)	1.75E+03	EPI (WSKOWWIN)
Trichloropropene, 1,2,3-	96-19-5	145.42	EPI	7.20E-01	1.76E-02	EPI (HenryWin)	1.412	CRC	5.90E-02	EPA 2002	9.40E-06	EPA 2002	1.31E+02	EPI (PCKOCWIN)	3.34E+02	EPI (WSKOWWIN)
Tridiphane	58138-08-2	320.43	EPI	0.00E+00	4.10E-07	EPI (HenryWin)	0.7275	CRC	6.60E-02	EPA 2002	7.90E-06	EPA 2002	1.76E+03	EPI (PCKOCWIN)	3.52E+01	EPI (WSKOWWIN)
Triethylamine	121-44-8	101.19	EPI	6.10E-03	1.49E-04	EPI (HenryWin)							1.07E+02	EPI (PCKOCWIN)	7.37E+04	EPI (WSKOWWIN)
Triethyltin Chloride	1582-09-8	335.29	EPI	4.20E-03	1.03E-04	EPI (HenryWin)							9.68E+03	EPI (PCKOCWIN)	1.84E-01	EPI (WSKOWWIN)
Trimethyl Phosphate	512-56-1	140.08	EPI	2.90E-07	7.20E-09	EPI (HenryWin)	1.2144	CRC					7.64E+00	EPI (PCKOCWIN)	5.00E+05	EPI (WSKOWWIN)
Trimethylbenzene, 1,2,4-	95-63-6	120.20	EPI	2.50E-01	6.16E-03	Sanemasa et al. (1982)	0.8758	CRC	6.10E-02	EPA 2002	7.90E-06	EPA 2002	7.18E+02	EPI (PCKOCWIN)	5.70E+01	McAuliffe (1966)
Trimethylbenzene, 1,3,5-	108-67-8	120.20	EPI	3.60E-01	8.77E-03	EPI (HenryWin)	0.8615	CRC	6.00E-02	EPA 2002	7.80E-06	EPA 2002	7.03E+02	EPI (PCKOCWIN)	4.82E+01	EPI (WSKOWWIN)
Trinitrobenzene, 1,3,5-	99-35-4	213.11	EPI	1.30E-07	3.08E-09	EPI (HenryWin)	1.4775	CRC					1.09E+03	EPI (PCKOCWIN)	2.78E+02	EPI (WSKOWWIN)
Trinitrotoluene, 2,4,6-	118-96-7	227.13	EPI	1.90E-05	4.57E-07	EPI (HenryWin)	1.654	CRC					1.83E+03	EPI (PCKOCWIN)	1.30E+02	EPI (WSKOWWIN)
Triphenylphosphine Oxide	191-28-6	278.29	EPI	2.20E-08	5.26E-10	EPI (HenryWin)	1.2124	CRC					9.21E+02	EPI (PCKOCWIN)	6.28E+01	EPI (WSKOWWIN)
Tris(2-chloroethyl)phosphate	115-98-8	285.49	EPI	1.00E-06	2.55E-08	EPI (HenryWin)	1.39	CRC					3.01E+02	EPI (PCKOCWIN)	7.00E+03	EPI (WSKOWWIN)
Tris(2-ethylhexyl)phosphate	78-42-2	434.65	EPI	3.20E-06	7.86E-08	EPI (HenryWin)	0.99	CRC					2.28E+06	EPI (PCKOCWIN)	6.00E-01	EPI (WSKOWWIN)
Uranium (Soluble Salts)	NA						19.1	CRC							0.00E+00	Lange's (15th Ed.), Assigned a water solubility value of 0
Vanadium Pentoxide	1314-62-1	181.88	EPI				3.35	CRC							7.00E+02	CRC 85th edition, measured at 25 degrees Celsius.
Vanadium Sulfate	36907-42-3	273.11	CRC												0.00E+00	CRC 85th edition, considered insoluble
Vanadium and Compounds	NA	50.94	CRC				6	CRC								
Vanadium, Metallic	7440-62-2	50.94	EPI				6	CRC								
Vernolate	1929-77-7	203.35	EPI	1.30E-03	3.09E-05	EPI (HenryWin)	0.952	CRC					4.75E+02	EPI (PCKOCWIN)	9.00E+01	EPI (WSKOWWIN)
Vindozolin	50471-44-8	286.12	EPI	5.40E-07	1.33E-08	EPI (HenryWin)	1.51	CRC					2.89E+02	EPI (PCKOCWIN)	5.00E+01	EPI (WSKOWWIN)
Vinyl Acetate	108-05-4	86.09	EPI	2.10E-02	5.11E-04	EPI (HenryWin)	0.9256	CRC	8.50E-02	EPA 2002	1.00E-05	EPA 2002	6.13E+00	EPI (PCKOCWIN)	2.00E+04	EPI (WSKOWWIN)
Vinyl Bromide	593-60-2	106.95	EPI	5.00E-01	1.23E-02	EPI (HenryWin)	1.4933	CRC	8.60E-02	EPA 2002	1.20E-05	EPA 2002	2.37E+01	EPI (PCKOCWIN)	5.08E+03	EPI (WSKOWWIN)
Vinyl Chloride	75-01-4	62.50	EPI	1.10E+00	2.79E-02	EPI (HenryWin)	0.9106	CRC	1.10E-01	EPA 2002	1.20E-05	EPA 2002	2.37E+01	EPI (PCKOCWIN)	8.80E+03	EPI (WSKOWWIN)
Warfarin	81-81-2	308.34	EPI	1.10E-07	2.77E-09	EPI (HenryWin)							2.73E+02	EPI (PCKOCWIN)	1.70E+01	EPI (WSKOWWIN)
Xylene, Mixture	1330-20-7	106.17	EPI	2.70E-01	6.63E-03	EPI (HenryWin)			8.50E-02	EPA 1987	9.90E-06	EPA 1987	4.43E+02	EPI (PCKOCWIN)	1.62E+02	EPI (WSKOWWIN)
Xylene, p-	106-42-3	106.17	EPI	2.80E-01	6.90E-03	EPI (HenryWin)	0.8565	CRC	6.80E-02	EPA 2002	8.40E-06	EPA 2002	4.34E+02	EPI (PCKOCWIN)	1.62E+02	EPI (WSKOWWIN)
Xylene, m-	108-38-3	106.17	EPI	2.90E-01	7.18E-03	EPI (HenryWin)	0.8598	CRC	6.80E-02	EPA 2002	8.40E-06	EPA 2002	4.34E+02	EPI (PCKOCWIN)	1.61E+02	EPI (WSKOWWIN)
Xylene, o-	95-47-6	106.17	EPI	2.10E-01	5.18E-03	EPI (HenryWin)	0.8755	CRC	6.90E-02	EPA 2002	8.50E-06	EPA 2002	4.43E+02	EPI (PCKOCWIN)	1.06E+02	EPI (WSKOWWIN)
Zinc (Metallic)	7440-66-6	67.41	EPI				7.134	CRC							0.00E+00	Lange's (15th Ed.), considered insoluble
Zinc Phosphide	1314-84-7						4.55	CRC							0.00E+00	CRC
Zineb	12122-67-7	275.74	EPI	6.50E-09	1.59E-10	EPI (HenryWin)							1.00E+01	EPI (PCKOCWIN)	1.00E+01	EPI (WSKOWWIN)

EPA 2002 = U.S. Environmental Protection Agency, Industrial Waste Air Model (WAIAR) Users Guide, Office of Solid Waste, February 2002.  
 EPA 1987 = Processes, Coefficients, and Models for Simulation Toxic Organics and Heavy Metals in Surface Waters, EPA/600/3-87/015, Office of Research and Development, Athens, GA.  
 CRC = Handbook of Chemistry and Physics  
 MW Other = Chemfinder, Derwin version 1.42, or Physprop Database  
 CRC Chrom III note = CRC 85th edition, (Values reported here are for chromium (III) oxide (CAS 1308-38-9) which is one of the water insoluble salts.)  
 CRC Chrom VI note = CRC 85th edition, (decomposes at this temp) Values reported here are for chromium (VI) oxide (CAS 1333-82-0)  
 EPI (Henry Win) = EPI (HenryWin) Experimental value; citation not listed