APPENDIX B

LIST OF IWEM WASTE CONSTITUENTS AND DEFAULT CHEMICAL PROPERTY DATA

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Table B-1: Constituent Chemical Properties

CAS	Constituent Name	Molecular Weight (g/mol) (a)	Solubility (mg/L) (b)	Log K_{oc} (log[mL/g]) (c)	Hydrolysis Rate Constants (c)			Diffusion Coefficient in Water (D_w) (m^2/yr) (d)
					Acid Catalyzed (K_a) (1/mol/yr)	Neutral (K_n) (1/yr)	Base Catalyzed (K_b) (1/mol/yr)	
83-32-9	Acenaphthene	154.2	4.24	3.75	0	0	0	
75-07-0	Acetaldehyde [Ethanal]	44.1	1.0E+06 (**e**)	-0.21 (**h**)	0	0	0	0.0426
67-64-1	Acetone (2-propanone)	58.1	1.0E+06 (**e**)	-0.59	0	0	0	0.0363
75-05-8	Acetonitrile (methyl cyanide)	41.1	1.0E+06 (**e**)	-0.71	0	0	45	0.0445
98-86-2	Acetophenone	120.2	6.13E+03	1.26	0	0	0	
107-02-8	Acrolein	56.1	2.13E+05	-0.22		6.7E+08		0.0385
79-06-1	Acrylamide	71.1	6.4E+05	-0.99	31.5	0.018	0	0.0397
79-10-7	Acrylic acid [propenoic acid]	72.1	1.0E+06 (**e**)	-1.84	0	0	0	0.0378
107-13-1	Acrylonitrile	53.1	7.4E+04	-0.09	500	0	5.2E+03	0.0388
309-00-2	Aldrin	364.9	0.18	6.18	0	0	0	0.0184
107-18-6	Allyl alcohol	58.1	1.0E+06 (**e**)	1.47 (**e**)	0	0	0	
62-53-3	Aniline (benzeneamine)	93.1	3.6E+04	0.60	0	0	0	0.0319
120-12-7	Anthracene	178.2	4.3E-02	4.21	0	0	0	
7440-36-0	Antimony	121.8						
7440-38-2	Arsenic	74.9						
7440-39-3	Barium	137.3						
56-55-3	Benz{a}anthracene	228.3	9.4E-03	5.34	0	0	0	0.0186 (**i**)
71-43-2	Benzene	78.1	1.75E+03	1.80	0	0	0	0.0325
92-87-5	Benzidine	184.2	500.0	1.26	0	0	0	0.0239
50-32-8	Benzo{a}pyrene	252.3	1.62E-03	5.80	0	0	0	0.0208
205-99-2	Benzo{b}fluoranthene	252.3	1.5E-03	5.80	0	0	0	0.0174 (**i**)
100-51-6	Benzyl alcohol	108.1	4.0E+04	0.78	0	0	0	
100-44-7	Benzyl chloride	126.6	525.00	2.84	0	410	0	0.0278
7440-41-7	Beryllium	9.0						
111-44-4	Bis(2-chloroethyl)ether	143.0	1.72E+04	0.80	0	0.23	0	0.0275
39638-32-9	Bis(2-chloroisopropyl)ether	171.1	1.31E+03	2.39	0		0	0.0233
117-81-7	Bis(2-ethylhexyl)phthalate	390.6	0.34	7.13	0	0	1.4E+03	0.0132
75-27-4	Bromodichloromethane	163.8	6.74E+03	1.77			5.0E+04	0.0337
74-83-9	Bromomethane	94.9	1.52E+04	0.76	0	9.46	0	0.0426
106-99-0	Butadiene 1,3-	54.1	735.00	2.06 (**e**)				0.0325
71-36-3	Butanol n-	74.1	7.4E+04	0.50	0	0	0	
85-68-7	Butyl benzyl phthalate	312.4	2.69	4.23	0	0	1.2E+05	
88-85-7	Butyl-4,6-dinitrophenol,2-sec-(Dinoseb)	240.2	52.00	2.02	0	0	0	
7440-43-9	Cadmium	112.4						
75-15-0	Carbon disulfide	76.1	1.19E+03	1.84	0	0	31500	0.041
56-23-5	Carbon tetrachloride	153.8	793.00	2.41	0	0.017	0	0.0308
57-74-9	Chlordane	409.8	0.06	5.89	0	0	37.7	0.0172
126-99-8	Chloro-1,3-butadiene 2-(Chloroprene)	88.5	1.74E+03	1.74	0	0	0	0.0315
106-47-8	Chloroaniline p-	127.6	5.3E+03	1.61	0	0	0	
108-90-7	Chlorobenzene	112.6	472.00	2.58	0	0	0	0.0299
510-15-6	Chlorobenzilate	325.2	11.10	4.04	0	0	2.8E+06	0.0173
124-48-1	Chlorodibromomethane	208.3	2.6E+03	1.91			2.5E+04	0.0334
75-00-3	Chloroethane [Ethyl chloride]	64.5	5.68E+03	0.51	0	0	0	0.0366
67-66-3	Chloroform	119.4	7.92E+03	1.58	0	1.0E-04	2740	0.0344
74-87-3	Chloromethane	50.5	5.33E+03	0.91				0.0429
95-57-8	Chlorophenol 2-	128.6	2.2E+04	1.82	0	0	0	0.0299
107-05-1	Chloropropene 3- (Allyl Chloride)	76.5	3.37E+03	1.13	0	40	0	0.0341
16065-83-1	Chromium (III) (Chromic Ion)	52.0						
18540-29-9	Chromium (VI)	52.0						
218-01-9	Chrysene	228.3	1.6E-03	5.34	0	0	0	0.0213
7440-48-4	Cobalt	58.9						
7440-50-8	Copper	63.5						
108-39-4	Cresol m-	108.1	2.27E+04	1.76	0	0	0	0.0294
95-48-7	Cresol o-	108.1	2.6E+04	1.76	0	0	0	0.0311
106-44-5	Cresol p-	108.1	2.15E+04	1.76	0	0	0	0.0291
1319-77-3	Cresols	324.4	2.34E+04	2.12	0	0	0	0.0299
98-82-8	Cumene	120.2	61.30	3.40	0	0	0	0.0248
108-93-0	Cyclohexanol	100.2	4.3E+04 (**e**)	1.11 (**g**)	0	0	0	0.0295
108-94-1	Cyclohexanone	98.1	5.0E+03	1.82	0	0	0	
72-54-8	DDD	320.0	0.09	5.89	0	0.025	2.2E+04	
72-55-9	DDE	318.0	0.12	6.64	0	0	0	
50-29-3	DDT p,p'-	354.5	0.03	6.59	0	0.06	3.1E+05	0.014
2303-16-4	Diallate	270.2	40.00	4.17	0	0.1	8.0E+03	
53-70-3	Dibenz{a,h}anthracene	278.4	0.00	6.52	0	0	0	0.019
96-12-8	Dibromo-3-chloropropane 1,2-	236.3	1.23E+03	1.94	0	4.0E-03	1.2E+05	0.0281
95-50-1	Dichlorobenzene 1,2-	147.0	156.00	3.08	0	0	0	0.0281
106-46-7	Dichlorobenzene 1,4-	147.0	73.80	3.05	0	0	0	0.0274
91-94-1	Dichlorobenzidine 3,3'-	253.1	3.11	3.32	0	0	0	0.0173 (**i**)

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CAS	Constituent Name	Molecular Weight (g/mol) (a)	Solubility (mg/L) (b)	Log K_{oc} (log[mL/g]) (c)	Hydrolysis Rate Constants (c)			Diffusion Coefficient in Water (D_w) (m^2/yr) (d)
					Acid Catalyzed (K_a) (1/mol/yr)	Neutral (K_n) (1/yr)	Base Catalyzed (K_b) (1/mol/yr)	
75-71-8	Dichlorodifluoromethane (Freon 12)	120.9	280.00	2.16				0.0341
75-34-3	Dichloroethane 1,1-	99.0	5.06E+03	1.46	0	1.13E-02	0.378	0.0334
107-06-2	Dichloroethane 1,2-	99.0	8.52E+03	1.13	0	9.61E-03	54.7	0.0344
75-35-4	Dichloroethylene 1,1-	96.9	2.25E+03	1.79	0	0	0	0.0347
156-59-2	Dichloroethylene cis-1,2-	96.9	3.5E+03	1.70	0	0	0	
156-60-5	Dichloroethylene trans-1,2-	96.9	6.3E+03	1.60	0	0	0	
120-83-2	Dichlorophenol 2,4-	163.0	4.5E+03	2.49	0	0	0	
94-75-7	Dichlorophenoxyacetic acid 2,4-(2,4-D)	221.0	677.00	0.68	0	0	0	
78-87-5	Dichloropropane 1,2-	113.0	2.8E+03	1.67	0	0	0	0.0307
542-75-6	Dichloropropene 1,3-(mixture of isomers)	111.0	2.8E+03	1.43				0.0319
10061-01-5	Dichloropropene cis-1,3-	111.0	2.72E+03	1.80	0	40	0	0.0322
10061-02-6	Dichloropropene trans-1,3-	111.0	2.72E+03	1.80	0	40	0	0.0319
60-57-1	Dieldrin	380.9	0.20	5.08	0	6.30E-02	0	0.019
84-66-2	Diethyl phthalate	222.2	1.08E+03	1.99	0	0	3.1E+05	
56-53-1	Diethylstilbestrol	268.4	0.10	4.09	0	0	0	
60-51-5	Dimethoate	229.2	2.5E+04	0.13	0	1.68	4.48E+06	
119-90-4	Dimethoxybenzidine 3,3'-	0.0	60.00	1.49	0	0	0	
68-12-2	Dimethyl formamide N,N- [DMF]	73.1	1.0E+06 (**g**)	-0.99 (**h**)	0	0	0	0.0353
57-97-6	Dimethylbenz{a}anthracene 7,12-	256.3	2.50E-02	6.64	0	0	0	0.0172 (**i**)
119-93-7	Dimethylbenzidine 3,3'-	212.3	1.3E+03	2.55	0	0	0	
105-67-9	Dimethylphenol 2,4-	122.2	7.87E+03	2.29	0	0	0	
84-74-2	Di-n-butyl phthalate	278.3	11.20	4.37	0	0	1.8E+06	
99-65-0	Dinitrobenzene 1,3-	168.1	861.00	1.31	0	0	0	
51-28-5	Dinitrophenol 2,4-	184.1	2.79E+03	-0.09	0	0	0	
121-14-2	Dinitrotoluene 2,4-	182.1	270.00	1.68	0	0	0	0.0249
606-20-2	Dinitrotoluene 2,6-	182.1	182.00	1.40	0	0	0	
117-84-0	Di-n-octyl phthalate	390.6	0.02	7.60	0	0	5.2E+05	
123-91-1	Dioxane 1,4-	88.1	1.0E+06 (**e**)	-0.81	0	0	0	0.0331
122-39-4	Diphenylamine	169.2	35.70	3.30	0	0	0	
122-66-7	Diphenylhydrazine 1,2-	184.2	68.00	2.82	0	0	0	0.0229
298-04-4	Disulfoton	274.4	16.30	2.94	0	2.3	5.4E+04	
115-29-7	Endosulfan (Endosulfan I and II,mixture)	406.9	0.51	3.55				
72-20-8	Endrin	380.9	0.25	4.60	0	0.055	0	
106-89-8	Epichlorohydrin	92.5	6.59E+04	-0.53	2.5E+04	30.9	0	0.035
106-88-7	Epoxybutane 1,2-	72.1	9.5E+04 (**e**)	0.90 (**e**)				0.0331
110-80-5	Ethoxyethanol 2-	90.1	1.0E+06 (**e**)	-0.54	0	0	0	0.0308
111-15-9	Ethoxyethanol acetate 2-	132.2	2.29E+05 (**g**)	0.70 (**g**)	0	0	0	0.0252
141-78-6	Ethyl acetate	88.1	8.03E+04	0.35	3.5E+03	4.8E-03	3.4E+06	
60-29-7	Ethyl ether	74.1	5.68E+04	0.55	0	0	0	
97-63-2	Ethyl methacrylate	114.1	3.67E+03	1.27	0	0	1.1E+06	
62-50-0	Ethyl methanesulfonate	124.2	6.3E+03	-0.27	0	1.25E+03	0	
100-41-4	Ethylbenzene	106.2	169.00	3.00	0	0	0	0.0267
106-93-4	Ethylene dibromide (1,2-Dibromoethane)	187.9	4.18E+03	1.42	0	0.63	0	0.0331
107-21-1	Ethylene glycol	62.1	1.0E+06 (**e**)	-1.50	0	0	0	0.0429
75-21-8	Ethylene oxide	44.1	1.0E+06 (**e**)	-1.10	2.9E+05	21	0	0.046
96-45-7	Ethylene thiourea	102.2	6.2E+04	0.00	0	0	0	0.0319 (**i**)
206-44-0	Fluoranthene	202.3	0.21	4.63	0	0	0	
16984-48-8	Fluoride	19.0						
50-00-0	Formaldehyde	30.0	5.5E+05	-1.30	0	0	0	0.0549
64-18-6	Formic acid	46.0	1.0E+06 (**e**)	-2.70	0	0	0	
98-01-1	Furfural	96.1	1.1E+05	0.80 (**j**)	0	0	0	0.0337
319-85-7	HCH beta-	290.8	0.24	3.43	0	0	0	0.0233
58-89-9	HCH (Lindane) gamma-	290.8	6.80	3.40	0	1.05	1.7E+06	0.023
319-84-6	HCH alpha-	290.8	2.00	3.43	0	0	0	0.0232
76-44-8	Heptachlor	373.3	0.18	5.21	0	61	0	0.018
1024-57-3	Heptachlor epoxide	389.3	0.20	4.90	0	0.063	0	0.0176
87-68-3	Hexachloro-1,3-butadiene	260.8	3.23	4.46	0	0	0	0.0222
118-74-1	Hexachlorobenzene	284.8	0.01	5.41	0	0	0	0.0248
77-47-4	Hexachlorocyclopentadiene	272.8	1.80	4.72	0	24.8	0	0.0228
55684-94-1	Hexachlorodibenzofurans [HxCDFs]	374.9	8.25E-06 (**f**)	7.00	0	0	0	0.0133 (**i**)
34465-46-8	Hexachlorodibenzo-p-dioxins [HxCDDs]	390.9	4.0E-06 (**f**)	6.38 (**g**)	0	0	0	0.013 (**i**)
67-72-1	Hexachloroethane	236.7	50.00	3.61	0	0	0	0.028
70-30-4	Hexachlorophene	406.9	140.00	5.00	0	0	0	
110-54-3	Hexane n-	86.2	12.40	2.95 (**k**)	0	0	0	0.0256
7783-06-4	Hydrogen Sulfide	34.1	437.00		0	0	0	
193-39-5	Indeno{1,2,3-cd}pyrene	276.3	2.2E-05	6.26	0	0	0	0.0164 (**i**)
78-83-1	Isobutyl alcohol	74.1	8.5E+04	0.44	0	0	0	
78-59-1	Isophorone	138.2	1.2E+04	1.90	0	0	0	0.0238

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CAS	Constituent Name	Molecular Weight (g/mol) (a)	Solubility (mg/L) (b)	Log K_{oc} (log[mL/g]) (c)	Hydrolysis Rate Constants (c)			Diffusion Coefficient in Water (D_w) (m^2/yr) (d)
					Acid Catalyzed (K_a) (1/mol/yr)	Neutral (K_n) (1/yr)	Base Catalyzed (K_b) (1/mol/yr)	
143-50-0	Kepone	490.6	7.60	4.15	0	0	0	
7439-92-1	Lead	207.2						
7439-96-5	Manganese	54.9						
7439-97-6	Mercury	200.6	0.06					0.0949
126-98-7	Methacrylonitrile	67.1	25400.00	0.22	500	0	5.2E+03	0.0334
67-56-1	Methanol	32.0	1.0E+06 (e)	-1.08	0	0	0	0.052
72-43-5	Methoxychlor	345.7	0.05	4.90	0	0.69	1.2E+04	
109-86-4	Methoxyethanol 2-	76.1	1.0E+06 (e)	0.95 (e)	0	0	0	0.0347
110-49-6	Methoxyethanol acetate 2-	118.1	1.0E+06 (m)		0	0	0	0.0275
78-93-3	Methyl ethyl ketone	72.1	2.23E+05	-0.03	0	0	0	0.0322
108-10-1	Methyl isobutyl ketone	100.2	1.9E+04	0.87	0	0	0	0.0264
80-62-6	Methyl methacrylate	100.1	1.5E+04	0.74	0	0	0	0.0292
298-00-0	Methyl parathion	263.2	55.00	2.47		2.8		
1634-04-4	Methyl tert-butyl ether [MTBE]	88.1	5.13E+04 (e)	1.05 (e)	0	0	0	0.0272
56-49-5	Methylcholanthrene 3-	268.4	0.00	7.00	0	1.7E-02	0	0.0194
74-95-3	Methylene bromide (Dibromomethane)	173.8	1.19E+04	1.21	0	0	0	
75-09-2	Methylene Chloride (Dichloromethane)	84.9	1.3E+04	0.93	0	1.0E-03	0.6	0.0394
7439-98-7	Molybdenum	95.9						
91-20-3	Naphthalene	128.2	31.00	3.11	0	0	0	0.0264
7440-02-0	Nickel	58.7						
98-95-3	Nitrobenzene	123.1	2.09E+03	1.51	0	0	0	0.0298
79-46-9	Nitropropane 2-	89.1	1.7E+04	0.23	0	0	0	0.0322
55-18-5	Nitrosodiethylamine N-	102.1	9.3E+04	-0.03	0	0	0	0.0288
62-75-9	Nitrosodimethylamine N-	74.1	1.0E+06 (e)	0.45	0	0	0	0.0363
924-16-3	Nitroso-di-n-butylamine N-	158.2	1.27E+03	2.09	0	0	0	0.0215
621-64-7	Nitroso-di-n-propylamine N-	130.2	9.89E+03	1.03	0	0	0	0.0245
86-30-6	Nitrosodiphenylamine N-	198.2	35.10	2.84	0	0	0	0.0227
10595-95-6	Nitrosomethylethylamine N-	88.1	1.97E+04	1.03	0	0	0	0.0315
100-75-4	Nitrosopiperidine N-	114.1	7.65E+04	-0.02	0	0	0	0.029
930-55-2	Nitrosopyrrolidine N-	100.1	1.0E+06 (e)	-0.57	0	0	0	0.0319
152-16-9	Octamethyl pyrophosphoramide	286.3	1.0E+06 (m)	-0.51	1.9E+03			
56-38-2	Parathion (ethyl)	291.3	6.54	3.15	0	2.4	3.7E+06	
608-93-5	Pentachlorobenzene	250.3	1.33	5.39	0	0	0	
30402-15-4	Pentachlorodibenzofurans [PeCDFs]	340.4	2.40E-04 (f)	4.93 (g)	0	0	0	0.0142 (i)
36088-22-9	Pentachlorodibenzo-p-dioxins [PeCDDs]	356.4	1.18E-04 (f)	6.3 (g)	0	0	0	0.0138 (i)
82-68-8	Pentachloronitrobenzene (PCNB)	295.3	0.55	4.57	0	0	0	
87-86-5	Pentachlorophenol	266.3	1.95E+03	3.06	0	0	0	0.0253
108-95-2	Phenol	94.1	8.28E+04	1.23	0	0	0	0.0325
62-38-4	Phenyl mercuric acetate	336.7	2.0E+03	0.00	0	0	0	
108-45-2	Phenylenediamine 1,3-	108.1	2.55E+06	-0.30	0	0	0	
298-02-2	Phorate	260.4	50.00	2.64	0	62	0	
85-44-9	Phthalic anhydride	148.1	6.2E+03	1.56 (e)	0	4.9E+05	0	0.0308
1336-36-3	Polychlorinated biphenyls (Aroclors)		0.07	6.19	0	0	0	0.0189
23950-58-5	Pronamide	256.1	32.80	2.63	59	0	610	
75-56-9	Propylene oxide [1,2-Epoxypropane]	58.1	4.05E+05 (e)	1.40 (e)	0	0	0	0.0382
129-00-0	Pyrene	202.3	0.14	4.92	0	0	0	
110-86-1	Pyridine	79.1	1.0E+06 (e)	0.34	0	0	0	0.0344
94-59-7	Safrole	162.2	810.67	2.34	0	0	0	
7782-49-2	Selenium	79.0						
7440-22-4	Silver	107.9						
57-24-9	Strychnine and salts	334.4	160.00	1.90	0	0	0	
100-42-5	Styrene	104.2	310.00	2.84	0	0	0	0.0278
95-94-3	Tetrachlorobenzene 1,2,4,5-	215.9	0.60	4.28	0	0	0	
51207-31-9	Tetrachlorodibenzofuran 2,3,7,8-	306.0	6.92E-04 (f)	6.62	0	0	0	0.0153 (i)
1746-01-6	Tetrachlorodibenzo-p-dioxin 2,3,7,8-	322.0	7.91E-06 (f)	6.10	0	0	0	0.0148 (i)
630-20-6	Tetrachloroethane 1,1,1,2-	167.8	1.1E+03	2.71	0	0.0137	1.13E+04	0.0287
79-34-5	Tetrachloroethane 1,1,2,2-	167.8	2.97E+03	2.07	0	5.1E-03	1.59E+07	0.0293
127-18-4	Tetrachloroethylene	165.8	200.00	2.21	0	0	0	0.0298
58-90-2	Tetrachlorophenol 2,3,4,6-	231.9	100.00	2.32	0	0	0	
3689-24-5	Tetraethyl dithiopyrophosphate (Sulfotep)	322.3	25.00	3.51	0	84	9.0E+06	
7440-28-0	Thallium	204.4						
137-26-8	Thiram [Thiuram]	240.4	30.00	2.83 (e)	0	0	0	
108-88-3	Toluene	92.1	526.00	2.43	0	0	0	0.0291
95-80-7	Toluenediamine 2,4-	122.2	3.37E+04	0.02	0	0	0	0.0282 (i)
95-53-4	Toluidine o-	107.2	1.66E+04	1.24	0	0	0	0.029
106-49-0	Toluidine p-	107.2	782.00	1.24	0	0	0	
8001-35-2	Toxaphene (chlorinated camphenes)		0.74	4.31	0	0.07	2.8E+04	0.0173
75-25-2	Tribromomethane (Bromoform	252.7	3.1E+03	2.05			1.0E+04	0.0328

Table B-1: Constituent Chemical Properties

CAS	Constituent Name	Molecular Weight (g/mol) (a)	Solubility (mg/L) (b)	Log K_{oc} (log[mL/g]) (c)	Hydrolysis Rate Constants (c)			Diffusion Coefficient in Water (D_w) (m^2/yr) (d)
					Acid Catalyzed (K_a) (1/mol/yr)	Neutral (K_n) (1/yr)	Base Catalyzed (K_b) (1/mol/yr)	
76-13-1	Trichloro-1,2,2-trifluoro-ethane 1,1,2-	187.4	170.00	2.97	0	0	0	0.0271
120-82-1	Trichlorobenzene 1,2,4-	181.4	34.60	3.96	0	0	0	0.0265
71-55-6	Trichloroethane 1,1,1-	133.4	1.33E+03	2.16	0	0.64	2.4E+06	0.0303
79-00-5	Trichloroethane 1,1,2-	133.4	4.42E+03	1.73	0	2.73E-05	4.95E+04	0.0315
79-01-6	Trichloroethylene (Trichloroethylene 1,1,2-)	131.4	1.1E+03	2.10	0	0	0	0.0322
75-69-4	Trichlorofluoromethane (Freon 11)	137.4	1.1E+03	2.11	0	0	0	0.0319
95-95-4	Trichlorophenol 2,4,5-	197.4	1.2E+03	2.93	0	0	0	
88-06-2	Trichlorophenol 2,4,6-	197.4	800.00	2.25	0	0	0	0.0255
93-72-1	Trichlorophenoxy)propionic acid 2-(2,4,5-	269.5	140.00	1.74	0	0	0	
93-76-5	Trichlorophenoxyacetic acid 2,4,5-	255.5	268.30	1.43	0	0	0	
96-18-4	Trichloropropane 1,2,3-	147.4	1.75E+03	1.66	0	1.7E-02	3.6E+03	0.0291
121-44-8	Triethylamine	101.2	5.5E+04 **(e)**	1.31 **(l)**	0	0	0	0.0247
99-35-4	Trinitrobenzene (Trinitrobenzene 1,3,5-)	213.1	350.00	1.05	0	0	0	
126-72-7	Tris(2,3-dibromopropyl)phosphate	697.6	8.00	3.19	0	8.8E-02	3.0E+05	
7440-62-2	Vanadium	50.9						
108-05-4	Vinyl acetate	86.1	2.0E+04	0.45	0	0	0	0.0315
75-01-4	Vinyl chloride	62.5	2.76E+03	1.04	0	0	0	0.0378
108-38-3	Xylene m-	106.2	161.00	3.09	0	0	0	0.0267
95-47-6	Xylene o-	106.2	178.00	3.02	0	0	0	0.027
106-42-3	Xylene p-	106.2	185.00	3.12	0	0	0	0.0267
1330-20-7	Xylenes (total)	318.5	175.00	3.08	0	0	0	0.0268
7440-66-6	Zinc	65.4						

Note: Data sources for chemical property values are indicated in the column headings; exceptions are noted in parentheses for individual chemical values.

Data sources:

a. http://chemfinder.cambridgesoft.com (CambridgeSoft

b. U.S. EPA, 1997b. Superfund Chemical Data Matrix (SCDM). SCDMWIN 1.0 (SCDM Windows User's Version), Version 1. Office of Solid Waste and Emergency Response Washington DC: GPO. http://www.epa.gov/superfund/resources/scdm/index.htm. Accessed July 2001

c. Kollig, H. P. (ed.), 1993. Environmental fate consultants for organic chemicals under consideration for EPA's hazardous waste identification projects. Environmental Research Laboratory, Office of R&D, U.S. EPA, Athens, GA.

d. Calculated based on Water 9. U.S. EPA, 2001. Office of Air Quality Planning and Standards, Research Triangle Park, NC. http://www.epa.gov/ttn/chief/software/water/ind Accessed July 2001

e. Syracuse Research Corporation (SRC), 1999. CHEMFATE Chemical Search, Environmental Science Center, Syracuse, NY. http://esc.syrres.com/efdb/Chemfate.htm. Accessed July 2001.

f. Calculated based on U.S. EPA, 2000. *Exposure and Human Health Reassessment of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds, Part 1, Vol. 3.* Office of Research and Development, Washington, DC: GPO.

g. USNLM (U.S. National Library of Medicine), 2001. Hazardous Substances Data Bank (HSDB). http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen/HSDB. Accessed July 2001.

h. MI DEQ. Environmental response Division Operational Memorandum #18 (Opmemo 18): Part 201 Generic Cleanup Criteria Tables, Revision 1, State of Michigan, Department of Environmental Quality. http://www.deq.state.mi.us/erd/opmemo18/index.html.

i. Calculated based on U.S. EPA, 1987. *Process Coefficients and Models for Simulating Toxic Organics and Heavy Metals in Surface Waters.* Office of Research and Develop Washington, DC: US Government Printing Office (GPO).

j. U.S. EPA, 1999. Region III Soil-to-Groundwater SSLs. Region III, Philadelphia, PA. http://www.epa.gov/reg3hwmd/risk/ssl.pdf

k. U.S. EPA, 2000. Physical-chemical Data.http://www.epa.gov/Rgeion9/waste/sfund/prg/index.htm

l. Calculated from octanol-water partition coefficient using regression equation log[Koc] = 1.029 x log[Kow] - 0.18; presented in Table 10.2 of G. deMarsily, 1986. Quantitative Hydrogeology. Academic Press

m. Lyman, W.J., W.F. Reehl, and D.H. Rosenblatt, 1990. Handbook of Chemical Property Estimation Methods: Environmental Behavior of Organic Compounds. Washington, DC: American Chemical Society.