

Table 5 - Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ¹	RfCi (mg/m ³)	IUR (µg/m ³) ⁻¹	Koc	VOC?	Aqueous Solubility (mg/L)	Aqueous Solubility Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
ACENAPHTHENE	83-32-9	0.06 I				4900	X	3.8	1.5,6	17220	20833		279	1.24
ACENAPHTHYLENE	208-96-8	0.06 S ¹				4500	X	16.1	5,6,7	16493	19776		280	2.11
ACEPHATE	30560-19-1	0.0012 O				3		818000	6				340	
ACETALDEHYDE	75-07-0			0.009 I	0.0000022 I	4.1	X	1000000	1	13010	14945	X	20	
ACETONE	67-64-1	0.9 I		31 D		0.31	X	1000000	1	13007	14942	X	56	18.07
ACETONITRILE	75-05-8			0.06 I		0.5	X	1000000	1	13020	14958	X	82	4.50
ACETOPHENONE	98-86-2	0.1 I				170		5500	1			X	203	
ACETYLAMINOFLUORENE, 2-(2AAF)	53-96-3		3.8 C		0.0013 C	1600		10.13	7				303	0.69
ACROLEIN	107-02-8	0.0005 I		0.00002 I		0.56	X	208000	1,2,4	13012	14948	X	53	4.50
ACRYLAMIDE	79-06-1	0.002 I	0.5 I	0.006 I	0.0001 I	25	X	2151000	4	12981	14906		193	
ACRYLIC ACID	79-10-7	0.5 I		0.001 I		29	X	1000000	2	12978	14902	X	141	1.39
ACRYLONITRILE	107-13-1	0.04 D	0.54 I	0.002 I	0.000068 I	11	X	73500	1	13004	14939	X	77	5.50
ALACHLOR	15972-60-8	0.01 I	0.056 C			110		140	2				378	
ALDICARB	116-06-3	0.001 I				22		6000	2				287	0.40
ALDICARB SULFONE	1646-88-4	0.001 I				10		8000	5				317	
ALDICARB SULFOXIDE	1646-87-3	0.001 M				0.22		330000	5				307	
ALDRIN	309-00-2	0.00003 I	17 I		0.0049 I	48000		0.02	4,5,6				330	0.22
ALLYL ALCOHOL	107-18-6	0.005 I		0.0001 X		3.2	X	1000000	2	13003	14937	X	97	18.07
AMETRYN	834-12-8	0.009 I				389		185	5				345	
AMINOBIIPHENYL, 4-	92-67-1		21 C		0.006 C	110		1200	5				302	18.07
AMITROLE	61-82-5		0.94 C		0.00027 C	120		280000	4				258	0.69
AMMONIA	7664-41-7	0.85 H		0.5 I		3	X	310000	2,5,7	13098	15059	X	-33	
AMMONIUM SULFAMATE	7773-06-0	0.2 I				3		2160000	10				603	
ANILINE	62-53-3	0.007 P	0.0057 I	0.001 I	0.0000016 C	190	X	33800	1	12959	14876	X	184	
ANTHRACENE	120-12-7	0.3 I				21000	X	0.066	1,5,6,7,8,9	30838	44562		340	0.28
ATRAZINE	1912-24-9	0.035 I	0.23 C			130		70	2,4,5				313	
AZINPHOS-METHYL (GUTHION)	86-50-0	0.0015 O		0.01 D		407.4		31.5	1,2				421	
BAYGON (PROPOXUR)	114-26-1	0.004 I				31		2000	2,4,5				decomp.	4.50
BENOMYL	17804-35-2	0.05 I	0.0024 O			1,900		2	5				520	
BENTAZON	25057-89-0	0.03 I				13		500	2				415	
BENZENE	71-43-2	0.004 I	0.055 I	0.03 I	0.0000078 I	58	X	1780.5	1,2,3,4	13053	15000	X	81	0.35
BENZIDINE	92-87-5	0.003 I	230 I		0.067 I	530,000		520	1,2,4				400	15.81
BENZO[A]ANTHRACENE	56-55-3		0.7 X		0.00011 C	350000		0.011	1,5,6				438	0.19
BENZO[A]PYRENE	50-32-8	0.0003 I	1 I	0.000002 I	0.0006 I	910000		0.0038	1,5,6				495	0.24
BENZO[B]FLUORANTHENE	205-99-2		1.2 C		0.00011 C	550000		0.0012	5,6,7				357	0.21
BENZO[G]H]PERYLENE	191-24-2	0.06 S ¹				2800000		0.00026	1,5,6				500	0.19
BENZO[K]FLUORANTHENE	207-08-9		1.2 C		0.00011 C	4400000		0.00055	5,6,7				480	0.06
BENZOIC ACID	65-85-0	4 I				32	X	2700	2,3,4,5	12985	14913		249	
BENZOTRICHLORIDE	98-07-7		13 I			920	X	53	1,5,13	13494	15606	X	221	121413.60
BENZYL ALCOHOL	100-51-6	0.1 P				100		40000	1,2,3			X	205	
BENZYL CHLORIDE	100-44-7	0.002 P	0.17 I	0.001 P	0.000049 C	190	X	493	1	12940	14846	X	179	20.90
BETA PROPIOLACTONE	57-57-8		14 C		0.004 C	4	X	370000	2	13008	14937	X	162	0.01
BHC, ALPHA	319-84-6	0.008 D	6.3 I		0.0018 I	1800		1.7	4,5,6,7				288	0.94
BHC, BETA-	319-85-7		1.8 I		0.00053 I	2300		0.1	6				304	1.02
BHC, GAMMA (LINDANE)	58-89-9	0.0003 I	1.1 C		0.00031 C	1400		7.3	4,5,6				323	1.05
BIPHENYL, 1,1-	92-52-4	0.05 I	0.008 I	0.0004 X		1700	X	7.2	1	14027	16325		255	18.07
BIS(2-CHLOROETHOXY)METHANE	111-91-1	0.003 P				61		100500	4,6,7,9,10,11			X	218	
BIS(2-CHLOROETHYL)ETHER	111-44-4		1.1 I		0.00033 I	76	X	10200	1,4,5	12942	14849	X	179	0.69
BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	0.04 I	0.07 H		0.00001 H	62	X	1700	5	12947	14856	X	189	0.69
BIS(CHLOROMETHYL)ETHER	542-88-1		220 I		0.062 I	16	X	22000	6	12992	14922	X	105	57270.57
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	0.02 I	0.014 I		0.0000024 C	87000		0.285	4,5,6			X	384	0.65
BISPHENOL A	80-05-7	0.05 I				1500		120	4				220	0.69
BROMACIL	314-40-9	0.1 M				58		815	2				421	
BROMOBENZENE	108-86-1	0.008 I		0.06 I		268	X	445	1,2	12954	14866	X	156.1	
BROMOCHLOROMETHANE	74-97-5	0.01 M		0.04 X		27	X	16700	4	13007	14942	X	68	
BROMODICHLOROMETHANE	75-27-4	0.02 I	0.062 I		0.000037 C	93	X	4500	6	12984	14910	X	87	
BROMOMETHANE	74-83-9	0.0014 I		0.005 I		170	X	17500	2	13039	14981	X	4	6.66
BROMOXYNIL	1689-84-5	0.015 O	0.103 O			300		130	2				329	
BROMOXYNIL OCTANOATE	1689-99-2	0.015 O	0.103 O			18,000		0.08	12				414	5.75
BUTADIENE, 1,3-	106-99-0		0.6 C	0.002 I	0.00003 I	120	X	735	1	13115	15041	X	-4.5	4.50
BUTYL ALCOHOL, N-	71-36-3	0.1 I				3.2	X	74000	1	12998	14930	X	118	4.68
BUTYLATE	2008-41-5	0.05 I				540	X	45	2	13430	15519	X	138	
BUTYLBENZENE, N-	104-51-8	0.05 P				2,500	X	15	1,6,7	12943	14851	X	183	
BUTYLBENZENE, SEC-	135-98-8	0.1 X				890	X	17	1,6,7	12983	14910	X	174	
BUTYLBENZENE, TERT-	98-06-6	0.1 X				680	X	30	1,6,7	12979	14904	X	169	
BUTYLBENZYL PHTHALATE	85-68-7	0.2 I	0.0019 P			34,000		2,69	4,5,6			X	370	1.39
CAPTAN	133-06-2	0.13 I	0.0023 C		0.00000066 C	200		0.5	4				259	589.39
CARBARYL	63-25-2	0.1 I				190		120	2,4,5				315	4.22
CARBAZOLE	86-74-8		0.02 H			2500		1.2	1,5,6				355	
CARBOFURAN	1563-66-2	0.005 I				43		700	2				311	
CARBON DISULFIDE	75-15-0	0.1 I		0.7 I		300	X	2100	1,2,3	13022	14961	X	46.2	
CARBON TETRACHLORIDE	56-23-5	0.004 I	0.07 I	0.1 I	0.000006 I	160	X	795	1,2,3	13117	15083	X	77	0.07

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CARBOXIN	5234-68-4	0.1 I				260		170	5,6,8				407	
CHLORAMBEN	133-90-4	0.015 I				20		700	2				210	
CHLORDANE	57-74-9	0.0005 I	0.35 I	0.0007 I	0.0001 I	98,000		0.056	4,5,7				351	0.09
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3			50 I		22	X	1400	4	13117	15041	X	-9	
CHLORO-1-PROPENE, 3-(ALLYL CHLORIDE)	107-05-1		0.021 C	0.001 I	0.000006 C	48	X	3300	1,3,5,7,10	13142	15116	X	45	18.07
CHLOROACETALDEHYDE	107-20-0	0.27 X				3.2	X	1000000	9	13004	14938	X	85	
CHLOROACETOPHENONE, 2-	532-27-4			0.00003 I		76		1100	3				247	4.50
CHLOROANILINE, P-	106-47-8	0.004 I	0.2 P			460	X	3900	1	13139	15127		232	
CHLOROBENZENE	108-90-7	0.02 I		0.05 P		200	X	490	3	12992	14922	X	132	0.84
CHLOROBENZILATE	510-15-6	0.02 I	0.11 C		0.000031 C	2600		13	4				415	3.60
CHLOROBUTANE, 1-	109-69-3	0.04 P				580	X	680	1,2,3,4	13007	14942	X	79	
CHLORODIBROMOMETHANE	124-48-1	0.02 I	0.084 I			83	X	4200	4,6,7,9	12973	14895	X	116	1.39
CHLORODIFLUOROMETHANE	75-45-6			50 I		59	X	2899	4	13141	15113	X	-41	
CHLOROETHANE	75-00-3			10 I		42	X	5700	1	13101	15038	X	12	4.50
CHLOROFORM	67-66-3	0.01 I	0.031 C	0.3 C	0.000023 I	56	X	8000	1,2,3	13044	14988	X	61	0.01
CHLORONAPHTHALENE, 2-	91-58-7	0.08 I				8500	X	11.7	1	19021	23532		256	
CHLORONITROBENZENE, P-	100-00-5	0.0007 P	0.06 P	0.002 P		480	X	220	1	13190	15196		242	
CHLOROPHENOL, 2-	95-57-8	0.005 I				400	X	24000	1,3,4	13053	15009	X	175	
CHLOROPRENE	126-99-8	0.02 H		0.02 I	0.0003 I	50	X	1736	9	13116	15075	X	59	0.69
CHLOROPROPANE, 2-	75-29-6			0.1001 H		260	X	3100	1,3,5	13055	15002	X	47	
CHLOROTHALONIL	1897-45-6	0.015 I	0.017 C			980		0.6	2				350	
CHLOROTOLUENE, O-	95-49-8	0.02 I				760	X	422	1,4,5	12941	14848	X	159	
CHLOROTOLUENE, P-	106-43-4	0.02 X				375	X	106	12	12961	14877	X	162	
CHLORPYRIFOS	2921-88-2	0.001 D				4600		1.12	2,4,6,7				377	
CHLORSULFURON	64902-72-3	0.02 O				11		192	2,5,6,8,9				531	
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	0.01 I				6,500		0.5	2,5,7				360	1.37
CHRYSENE	218-01-9		0.12 C		0.000011 C	490000		0.0019	1				448	0.13
CRESOL(S)	1319-77-3	0.1 D		0.6 C		25	X	20000	2	12976	14899	X	139	5.16
CRESOL, DINITRO-O-, 4,6-	534-52-1	0.00008 X				257	X	150	4	13025	14970		312	6.02
CRESOL, O- (METHYLPHENOL, 2-)	95-48-7	0.05 I				22	X	2500	3,5,6	12974	14896		191	18.07
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	0.05 I				35		2500	2			X	202	5.16
CRESOL, P (METHYLPHENOL, 4-)	106-44-5	0.005 H				49		22000	6				202	9.03
CRESOL, P-CHLORO-M-	59-50-7	0.1 X				780		3846	2				235	
CROTONALDEHYDE	4170-30-3	0.001 S ²	1.9 S ²			5.6	X	180000	3	12998	14931	X	104	18.07
CROTONALDEHYDE, TRANS-	123-73-9	0.001 P	1.9 H			6.1	X	156000	1	13006	14940	X	104	18.07
CUMENE (ISOPROPYL BENZENE)	98-82-8	0.1 I		0.4 I		2900	X	50	1,5,6	12940	14846	X	152	15.81
CYANAZINE	21725-46-2	0.002 H	0.84 H			199		171	2,5				369	
CYCLOHEXANE	110-82-7			6 I		479	X	55	1,2,4,5,6	13140	15112	X	81	
CYCLOHEXANONE	108-94-1	5 I		0.7 P		66	X	36500	1,2,4,5	12949	14858	X	157	
CYFLUTHRIN	68359-37-5	0.025 I				130,000		0.001	2				448	
CYROMAZINE	66215-27-8	0.5 O				1,200		11000	12				222	
DDD, 4,4'-	72-54-8	0.003 X	0.24 I		0.000069 C	44000		0.16	5,6,7				350	0.02
DDE, 4,4'-	72-55-9	0.0003 X	0.34 I		0.000097 C	87000		0.04	5				348	0.02
DDT, 4,4'-	50-29-3	0.0005 I	0.34 I		0.000097 I	240000		0.0055	5,6,7				260	0.02
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	0.6 I	0.0012 I			47,000,000		200	5			X	214	4.50
DIALLATE	2303-16-4		0.061 H			190		40	2,4,6,8			X	328	1.39
DIAMINOTOLUENE, 2,4-	95-80-7		4 C		0.0011 C	36		7470	4				292	0.69
DIAZINON	333-41-5	0.0007 D				500		50	2,4,6,8			X	306	
DIBENZO[A,H]ANTHRACENE	53-70-3		4.1 C		0.0012 C	1800000		0.0006	1,5,6				524	0.13
DIBENZOFURAN	132-64-9	0.001 X				10233	X	4.48	1,6,7,9	23885	31445		287	7.23
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.0002 P	0.8 P	0.0002 I	0.006 P	140	X	1000	4	12946	14856	X	196	0.69
DIBROMOBENZENE, 1,4-	106-37-6	0.01 I				1,600		20	1				220	
DIBROMOETHANE, 1,2-(ETHYLENE DIBROMIDE)	106-93-4	0.009 I	2 I	0.009 I	0.0006 I	54	X	4150	1,2,3,5	12972	14893	X	131	2.11
DIBROMOMETHANE	74-95-3	0.01 H		0.004 X		110	X	11400	1	12948	14858	X	96	4.50
DIBUTYL PHTHALATE, N-	84-74-2	0.1 I				1600		400	1,2,3			X	340	11.00
DICAMBA	1918-00-9	0.03 I				0.27		5600	4,5,6,8,10				329	
DICHLOROACETIC ACID	79-43-6	0.004 I	0.05 I			8.1	X	1000000	1	12994	14924	X	194	
DICHLORO-2-BUTENE, 1,4-	764-41-0				0.0042 P	180	X	850	9	12943	14851	X	156	
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6				0.0042 P	215	X	850	9	12940	14847	X	155	
DICHLOROBENZENE, 1,2-	95-50-1	0.09 I		0.2 H		350	X	147	1,4,5,6,7	12946	14855	X	180	0.69
DICHLOROBENZENE, 1,3-	541-73-1	0.09 M				360	X	106	1	12942	14849	X	173	0.69
DICHLOROBENZENE, P-	106-46-7	0.07 D	0.0054 C	0.8 I	0.000011 C	510	X	82.9	1	12943	14850		174	0.69
DICHLOROBENZIDINE, 3,3'-	91-94-1		0.45 I		0.00034 C	22000		3.11	4,5,6				368	0.69
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	0.2 I		0.1 X		360	X	280	1	13115	15041	X	-30	0.69
DICHLOROETHANE, 1,1-	75-34-3	0.2 P	0.0057 C	0.5 H	0.0000016 C	52	X	5000	2	13051	14998	X	57	0.16
DICHLOROETHANE, 1,2-	107-06-2	0.006 X	0.091 I	0.007 P	0.000026 I	38	X	8412	1,2,3,4	13010	14945	X	83	0.07
DICHLOROETHYLENE, 1,1-	75-35-4	0.05 I		0.2 I		65	X	2500	1,4,5	13145	15119	X	32	0.19
DICHLOROETHYLENE, CIS-1,2-	156-59-2	0.002 I				49	X	3500	1	13037	14979	X	60	0.01
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	0.02 I				47	X	6300	1	13053	15000	X	48	0.01
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.006 I	0.002 I	0.6 I	0.00000001 I	16	X	20000	1,2,3	13071	15023	X	40	4.50
DICHLOROPHENOL, 2,4-	120-83-2	0.003 I				160		4500	1				210	5.88
DICHLOROPHENOXYACETIC ACID, 2,4-(2,4-D)	94-75-7	0.01 I				59		677	4,5,6,7,10				215	1.39
DICHLOROPROPANE, 1,2-	78-87-5	0.04 P	0.037 P	0.004 I	0.0037 P	47	X	2700	1,3,4	13016	14954	X	96	0.10
DICHLOROPROPENE, 1,3-	542-75-6	0.03 I	0.1 I	0.02 I	0.000004 I	27	X	2700	6	13038	14981	X	108	22.38
DICHLOROPROPIONIC ACID, 2,2-(DALAPON)	75-99-0	0.03 I				62	X	500000	5	12949	14860	X	190	2.11

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DICHLORVOS	62-73-7	0.0005 I	0.29 I	0.0005 I	0.000083 C	50		10000	2.4,5			X	234	
DICYCLOPENTADIENE	77-73-6	0.008 P		0.0003 X		810	X	40	5	12957	14870		167	
DIELDRIN	60-57-1	0.00005 I	16 I		0.0046 I	11000		0.17	4.5,6				385	0.12
DIETHANOLAMINE	111-42-2	0.002 P		0.0002 P		4		1000000	2.3,9			X	269	
DIETHYL PHTHALATE	84-66-2	0.8 I				81		1080	4.5,6			X	298	2.25
DIFLUBENZURON	35367-38-5	0.02 I				1,000		0.2	2				201	
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	0.08 I				10	X	160000	9	12978	14903	X	190	
DIMETHOATE	60-51-5	0.0022 O				110		25000	4				361	2.26
DIMETHOXYBENZIDINE, 3,3-	119-90-4		1.6 P			1,300		60	9				331	0.69
DIMETHRIN	70-38-2	0.3 M				27,000		0.036	13				353	
DIMETHYLAMINOAZOBENZENE, P-	60-11-7		4.6 C		0.0013 C	1000		13.6	7				335	4.50
DIMETHYLANILINE, N,N-	121-69-7	0.002 I		0.027 P		180	X	1200	5,6,7,9	12944	14852	X	192	0.69
DIMETHYLBENZIDINE, 3,3-	119-93-7		11 P			22,000		1300	10				300	18.07
DIMETHYL METHYLPHOSPHONATE	756-79-6	0.06 P	0.0017 P			5	X	1000000	14	12998	14930	X	181	
DIMETHYL PHENOL, 2,4-	105-67-9	0.02 I				130		7869	1.4,6,7			X	211	18.07
DINITROBENZENE, 1,3-	99-65-0	0.0001 I				150		523	3.5,6,7				291	0.69
DINITROPHENOL, 2,4-	51-28-5	0.002 I				0.79		5600	2,4,5,6,7				332	0.48
DINITROTOLUENE, 2,4-	121-14-2	0.002 I	0.31 C		0.000089 C	51		270	4.5,6				300	0.69
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	0.0003 X	1.5 P			74		200	6				300	0.69
DINOSEB	88-85-7	0.001 I				10		50	5				223	1.03
DIOXANE, 1,4-	123-91-1	0.03 I	0.1 I	0.03 I	0.000005 I	7.8	X	1000000	5	12996	14928	X	101	0.69
DIPHENAMID	957-51-7	0.03 I				200		260	5				210	
DIPHENYLAMINE	122-39-4	0.1 O				190		300	3				302	4.50
DIPHENYLHYDRAZINE, 1,2-	122-66-7		0.8 I		0.00022 I	660	X	0.252	6	13375	15446		309	0.69
DIQUAT	85-00-7	0.0022 I				2.6		700000	5				355	
DISULFOTON	298-04-4	0.00004 I				1000		25	4.5,6			X	332	6.02
DITHIANE, 1,4-	505-29-3	0.01 I				22.7	X	3000	15	12976	14899		199	
DIURON	330-54-1	0.002 I				300		42	2.4,5				354	
ENDOSULFAN	115-29-7	0.006 I				2,000		0.48	4				401	2.78
ENDOSULFAN I (ALPHA)	959-98-8	0.006 S ³				2000		0.5	6				401	
ENDOSULFAN II (BETA)	33213-65-9	0.006 S ³				2300		0.45	6				390	
ENDOSULFAN SULFATE	1031-07-8	0.006 S ³				2300		0.117	7.9				409	
ENDOTHALL	145-73-3	0.02 I				120		100000	2				350	
ENDRIN	72-20-8	0.0003 I				11000		0.23	4.6,7,9				245	
EPICHLOROHYDRIN	106-89-8	0.006 P	0.0099 I	0.001 I	0.0000012 I	35	X	65800	1.3,4	12972	14893	X	116	4.50
ETHEPHON	16672-87-0	0.005 I				2		1240000	12				201	
ETHION	563-12-2	0.0005 I				8700		0.85	4.6,9,10			X	415	
ETHOXYETHANOL, 2- (EEGEE)	110-80-5	0.09 P		0.2 I		12	X	1000000	2	13100	15040	X	136	4.50
ETHYL ACETATE	141-78-6	0.9 I		0.07 P		59	X	80800	1.2,3,4,5,6	12963	14881	X	77	18.07
ETHYL ACRYLATE	140-88-5	0.005 P	0.048 H	0.008 P		110	X	15000	1.2,6	12951	14863	X	100	18.07
ETHYL BENZENE	100-41-4	0.1 I	0.011 C	1 I	0.0000025 C	220	X	161	1.3,4	13004	15000	X	136	1.11
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	759-94-4	0.05 O				240	X	365	2	13056	15014	X	127	
ETHYL ETHER	60-29-7	0.2 I				68	X	60400	1	12982	14908	X	35	
ETHYL METHACRYLATE	97-63-2	0.09 H		0.3 P		22	X	4635.5	9.10	12991	14921	X	117	
ETHYLENE CHLORHYDRIN	107-07-3	0.02 P				1.33	X	1000000	9	13006	14941	X	128	
ETHYLENE GLYCOL	107-21-1	2 I		0.4 C		4.4	X	1000000	2	13004	14938	X	197.5	10.54
ETHYLENE THIOUREA (ETU)	96-45-7	0.00008 I	0.045 C		0.000013 C	0.23		20000	2				347	4.50
ETHYL P-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	0.00001 I				1200		3.1	4				215	
FENAMIPHOS	22224-92-6	0.00025 I				300		329	2				390	
FENVALERATE (PYDRIN)	51630-58-1	0.025 I				4,400		0.085	5			X	300	
FLUOMETURON	2164-17-2	0.013 I				68		97.5	2.5,6,8				318	
FLUORANTHENE	206-44-0	0.04 I				49000		0.26	1.5,6				375	
FLUORENE	86-73-7	0.04 I				7900	X	1.9	1	20155	25294		298	2.11
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	0.3 I		0.7 H		130	X	1090	1.4,5,6	13107	15060	X	23.63	0.35
FONOFOS	944-22-9	0.002 I				1100		13	5.6,8			X	324	
FORMALDEHYDE	50-00-0	0.2 I	0.021 C	0.009 C	0.000013 I	3.6	X	55000	1	13046	14990	X	-21	18.07
FORMIC ACID	64-18-6	0.9 P		0.0003 X		0.54	X	1000000	2	12940	14846	X	100.7	18.07
FOSETYL-AL	39148-24-8	2.5 O				310		120000	2				464	
FURAN	110-00-9	0.001 I				130	X	10000	1	13019	14956	X	31	2.25
FURFURAL	98-01-1	0.003 I	0.0349 O	0.05 H		6.3	X	91000	1.2,3	12998	14930	X	161.7	
GLYPHOSATE	1071-83-6	0.1 I				3500		12000	1.5,6				417	
HEPTACHLOR	76-44-8	0.0005 I	4.5 I		0.0013 I	6800		0.18	4.6,7				310	46.84
HEPTACHLOR EPOXIDE	1024-57-3	0.000013 I	9.1 I		0.0026 I	21000		0.311	4.6,7,9				341	0.23
HEXACHLOROBENZENE	118-74-1	0.0008 I	1.6 I		0.00046 I	3800		0.006	1.4,5				319.3	0.06
HEXACHLOROBUTADIENE	87-68-3	0.001 P	0.078 I		0.000022 I	4700		2.89	4.5,6,7			X	215	0.69
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.006 I		0.0002 I		7200		1.8	5.6,7			X	239	4.50
HEXACHLOROETHANE	67-72-1	0.0007 I	0.04 I	0.03 I	0.000011 C	2200	X	50	1	14825	17421		186.8	0.69
HEXANE	110-54-3	0.06 H		0.7 I		3600	X	9.5	1.5,6	13105	15056	X	69	
HEXAZINONE	51235-04-2	0.033 I				41		330000	1.2				408	
HEXYTHIAZOX (SAVEY)	78587-05-0	0.025 I				6,500		0.5	2				539	
HMX	2691-41-0	0.05 I				3.8		5	16				436	
HYDRAZINE/HYDRAZINE SULFATE	302-01-2		3 I	0.00003 P	0.0049 I	0.0053	X	1000000	2	13026	14966	X	113.5	18.07
HYDROQUINONE	123-31-9	0.04 P	0.06 P			9.5		70000	2.3,5				285	18.07
INDENO[1,2,3-CD]PYRENE	193-39-5		1.2 C		0.00011 C	31,000,000		0.062	5				536	0.17
IPRODIONE	36734-19-7	0.04 I	0.0439 O			1100		13	2				545	

Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	RfCi (mg/m ³)	IUR (µg/m ³) ⁻¹	Koc	VOC?	Aqueous Solubility (mg/L)	Aqueous Solubility Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
ISOBUTYL ALCOHOL	78-83-1	0.3 I				60	X	81000	1,2,3,4,5	12954	14866	X	108	17.57
ISOPHORONE	78-59-1	0.2 I	0.00095 I	2 C		31		12000	2,4,5			X	215	4.5
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	0.1 I				1.84		50000	13			X	230	
KEPONE	143-50-0	0.0003 I	10 I		0.0046 C	55000		7.6	4				350	0.17
MALATHION	121-75-5	0.02 I				1300		143	4			X	351	2.46
MALEIC HYDRAZIDE	123-33-1	0.5 I				3		6000	4				260	
MANEB	12427-38-2	0.005 I	0.0601 O			1		23	9,13				351	
MERPHOS OXIDE	78-48-8	0.0005 D				53000		2.3	8,10,12			X	392	
METHACRYLONITRILE	126-98-7	0.0001 I		0.03 P		21	X	25700	1	12994	14925	X	90.3	
METHAMIDOPHOS	10265-92-6	0.00005 I				5		2000000	5				223	
METHANOL	67-56-1	2 I		20 I		2.8	X	1000000	2	13025	14964	X	64.55	36.14
METHOMYL	16752-77-5	0.025 I				20		58000	2				228	
METHOXYCHLOR	72-43-5	0.005 I				63,000		0.045	4,5,6				346	0.69
METHOXYETHANOL, 2-	109-86-4	0.005 P		0.02 I		1	X	1000000	2	13141	15115	X	124	4.50
METHYL ACETATE	79-20-9	1 X				30	X	243500	4,5,6	12982	14908	X	56.9	
METHYL ACRYLATE	96-33-3	0.03 H		0.02 P		55	X	52000	1,2,5	12971	14892	X	70	18.07
METHYL CHLORIDE	74-87-3	0.03 H	0.013 H	0.09 I	0.0000018 H	6	X	6180	1,2,3,4	13103	15038	X	-24	4.50
METHYL ETHYL KETONE	78-93-3	0.6 I		5 I		32	X	275000	1,2,3,4,5	12974	14897	X	80	2.57
METHYL HYDRAZINE	60-34-4	0.001 P		0.00002 X	0.001 X	1	X	1000000	2	13011	14947	X	88	5.27
METHYL ISOBUTYL KETONE	108-10-1	0.08 H		3 I		17	X	19550	1,2,4,5	12983	14910	X	117.4	18.07
METHYL ISOCYANATE	624-83-9	0.001 C		0.001 C		10	X	100000	7	13021	14959	X	40	
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	0.005 I		0.03 I		54	X	17500	1	12955	14868	X	128	
METHYL METHACRYLATE	80-62-6	1.4 I		0.7 I		10	X	15600	1	13001	14934	X	100.3	4.50
METHYL METHANESULFONATE	66-27-3		0.099 C		0.000028 C	5.2		200000	2			X	203	
METHYL PARATHION	298-00-0	0.00025 I				790		25	4,5,6				348	3.61
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	0.006 H		0.04 H		2200	X	89	9	12945	14853	X	163	
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4		0.0018 C	3 I	0.00000026 C	12	X	45000	1,2,4,6	13014	14950	X	55.2	0.69
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	94-74-6	0.0005 I				112		1000	5,6,8,9				287	1.39
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	0.002 P	0.1 P		0.00043 C	3,000		13.9	10				379	
METHYLNAPHTHALENE, 2-	91-57-6	0.004 I		0.003 S ⁴		16,000	X	25	1	12955	14870		241	
METHYLSTYRENE, ALPHA	98-83-9	0.07 H				660	X	560	9	12942	14850	X	165	
METOLACHLOR	51218-45-2	0.15 I				182	X	530	1,5	13035	14985	X	100	
METRIBUZIN	21087-64-9	0.025 I				95		1200	1,5				367	
MEVINPHOS	7786-34-7	0.000025 O				44	X	600000	6	12947	14856		106	
MONOCHLOROACETIC ACID	79-11-8	0.002 H				0.24	X	858000	17	13008	14943		189	
NAPHTHALENE	91-20-3	0.02 I	0.12 C	0.003 I	0.000034 C	950	X	30	3	13284	15323		217.9	0.98
NAPHTHYLAMINE, 1-	134-32-7		1.8 C			3,200	X	1690	2	15517	18386		301	0.69
NAPHTHYLAMINE, 2-	91-59-8		1.8 C			87		6.4	6				306	0.69
NAPROPAMIDE	15299-99-7	0.12 O				880		70	2				399	
NITROANILINE, O-	88-74-4	0.01 X		0.00005 X		27	X	1200	6	12967	14886		284	
NITROANILINE, P-	100-01-6	0.004 P	0.02 P	0.006 P		15		800	2				332	
NITROBENZENE	98-95-3	0.002 I		0.009 I	0.00004 I	130	X	2000	2	12940	14847	X	210.8	0.64
NITROGUANIDINE	556-88-7	0.1 I				0.13		4400	9				231	
NITROPHENOL, 2-	88-75-5	0.008 S ⁵				37	X	2100	1,2,3,4,5,6	12966	14884		215	9.01
NITROPHENOL, 4-	100-02-7	0.008 M				230	X	16000	2	12960	14878		279	25.81
NITROPROPANE, 2-	79-46-9			0.02 I	0.0027 H	20	X	16700	1,3,4,5	12984	14911	X	120.25	0.69
NITROSODIETHYLAMINE, N-	55-18-5		150 I		0.043 I	26	X	93000	10	12974	14896	X	176	0.69
NITROSODIMETHYLAMINE, N-	62-75-9	0.000008 P	51 I	0.00004 X	0.014 I	8.5	X	1000000	2	13001	14934	X	154	0.69
NITroso-DI-N-BUTYLAMINE, N-	924-16-3		5.4 I		0.0016 I	450	X	1200	9,10,11	13008	14946	X	235	0.69
NITROSODI-N-PROPYLAMINE, N-	621-64-7		7 I		0.002 C	11	X	9900	6	12986	14914	X	206	0.69
NITROSODIPHENYLAMINE, N-	86-30-6		0.0049 I		0.0000026 C	580	X	35	1	13148	15140		268.7	3.72
NITroso-N-ETHYLUREA, N-	759-73-9		27 C		0.0077 C	1.7		13000	9				223	1734.48
OCTYL PHTHALATE, DI-N-	117-84-0	0.01 P				980000000		3	5			X	234	0.69
OXAMYL (VYDATE)	23135-22-0	0.025 I				7.1		280000	2				334	
PARAQUAT	1910-42-5	0.0045 I				16200		660000	6,8				352	
PARATHION	56-38-2	0.00003 O				2300		20	2,4,5,6,7			X	375	
POLYCHLORINATED BIPHENYLS (PCBS)	1336-36-3		2 I		0.0001 I	78100		0.0505	10,13				360	
PCB-1016 (AROCLOR)	12674-11-2	0.00007 I				110000		0.25	5			X	325	
PCB-1221 (AROCLOR)	11104-28-2		2 S ⁷		0.0001 S ⁷	1900	X	0.59	5	13810	16032	X	275	
PCB-1232 (AROCLOR)	11141-16-5		2 S ⁷		0.0001 S ⁷	1500		1.45	7			X	290	
PCB-1242 (AROCLOR)	53469-21-9		2 S ⁷		0.0001 S ⁷	48000		0.1	5			X	325	
PCB-1248 (AROCLOR)	12672-29-6		2 S ⁷		0.0001 S ⁷	190000		0.054	7,9,11			X	340	
PCB-1254 (AROCLOR)	11097-69-1	0.00002 I				810,000		0.057	5			X	365	
PCB-1260 (AROCLOR)	11096-82-5		2 S ⁷		0.0001 S ⁷	1800000		0.08	5				385	
PEBULATE	1114-71-2	0.05 H				630		92	5			X	303	
PENTACHLOROBENZENE	608-93-5	0.0008 I				32000		0.74	1,5,6,7				277	0.37
PENTACHLOROETHANE	76-01-7		0.09 P			1905	X	480	1,3	13120	15102	X	160	
PENTACHLORONITROBENZENE	82-68-8	0.003 I	0.26 H			7900		0.44	4,6,8				328	0.36
PENTACHLOROPHENOL	87-86-5	0.005 I	0.4 I		0.0000051 C	20000		14	1,2,4,5				310	0.17
PERFLUOROBUTANE SULFONATE (PFBS)	375-73-5	0.0003 P				61.7		56600	9			X	211	
PERFLUOROCTANE SULFONATE (PFOS)	1763-23-1	0.00002 M	0.07 M			2.57		680	19,20,21,22,23				258	
PERFLUOROCTANOIC ACID (PFOA)	335-67-1	0.00002 M				2.06		9500	24				192	
PHENACETIN	62-44-2		0.0022 C		0.00000063 C	110		763	2,3,9				341	4.50

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PHENANTHRENE	85-01-8	0.3 S ⁸				38000	X	1.1	1,4,5	41808	70721		341.2	0.63
PHENOL	108-95-2	0.3 I		0.2 C		22	X	84300	1,2,3,4	12977	14901		181.84	36.14
PHENYL MERCAPTAN	108-98-5	0.001 P				562	X	653	5,9	13039	14989	X	170	
PHENYLENEDIAMINE, M-	108-45-2	0.006 I				12		351000	3				286	4.50
PHENYLPHENOL, 2-	90-43-7		0.00194 H			5700		700	5				280	18.07
PHORATE	298-02-2	0.0002 O				810		50	2			X	319	
PHTHALIC ANHYDRIDE	85-44-9	2 I		0.02 C		79	X	6170	2	13018	14956		284.5	13490.40
PICLORAM	1918-02-1	0.07 I				15		430	2				373	
PROMETON	1610-18-0	0.015 I				346		750	2,5				347	
PRONAMIDE	23950-58-5	0.075 I				200		15	2				321	
PROPACHLOR	1918-16-7	0.013 I				139	X	613	8	12952	14865		110	1.73
PROPANIL	709-98-8	0.005 I				160		225	2				355	
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	2 P		0.2 P		25	X	1000000	2	12981	14906	X	82	
PROPAZINE	139-40-2	0.02 I				155		8.6	1,5			X	318	
PROPHAM	122-42-9	0.02 I				51		250	5				257	
PROPYLBENZENE, N-	103-65-1	0.1 X		1 X		720	X	52	6	12971	14891	X	159.2	
PROPYLENE OXIDE	75-56-9	0.001 O	0.24 I	0.03 I	0.0000037 I	25	X	405000	1	13239	15057	X	34	
PYRENE	129-00-0	0.03 I				68,000		0.132	1				393	0.07
PYRETHRUM	8003-34-7	0.044 O				6	X	0.35	13			X	170	
PYRIDINE	110-86-1	0.001 I				0.0066	X	1000000	2	13142	15114	X	115.25	18.07
QUINOLINE	91-22-5		3 I			1,300		60000	1,3,5			X	237.7	12.65
QUIZALOFOP (ASSURE)	76578-14-8	0.009 I				580		0.3	2				220	
RDX	121-82-4	0.004 I	0.08 I			70		59.9	1.9				353	
RESORCINOL	108-46-3	2 TE				2.1		717000					280	
RONNEL	299-84-3	0.05 H				580		40	2				349	
SIMAZINE	122-34-9	0.005 I	0.12 H			110		5	5				225	
STRYCHNINE	57-24-9	0.0003 I				280		143	5				270	4.50
STYRENE	100-42-5	0.2 I		1 I		910	X	300	5	12942	14850	X	145.14	1.20
TEBUTHIURON	34014-18-1	0.07 I				620		2500	2				394	
TERBACIL	5902-51-2	0.013 I				53		710	2				396	
TERBUFOS	13071-79-9	0.000025 H				510		5	6			X	332	
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	0.0003 I				1,800		0.583	1,5,6,7				245	0.69
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.000000007 I	130000 C	0.00000004 C	38 C	4300000		0.0000193	6				412	0.21
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	0.03 I	0.026 I		0.0000074 I	980	X	1100	1	12990	14921	X	131	3.79
TETRACHLOROETHANE, 1,1,1,2-	79-34-5	0.02 I	0.2 I		0.000058 I	79	X	2860	2	12957	14871	X	146.5	0.56
TETRACHLOROETHYLENE (PCE)	127-18-4	0.006 I	0.0021 I	0.04 I	0.00000026 I	300	X	162	1,2,3,4,5	13017	14955	X	121.07	0.03
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	0.03 I				6,200		183	6				288	0.69
TETRAETHYL LEAD	78-00-2	0.0000001 I				4,900		0.8	5			X	202	4.50
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	0.0005 I				550,000		25	2			X	349	
TETRAHYDROFURAN	109-99-9	0.9 I	0.0076 I	2 I	0.00000194 I	43	X	300000	1,6,7	12970	14891	X	66	
THIOFANOX	39196-18-4	0.0003 H				0.022		5200	9				280	
THIRAM	137-26-8	0.015 O				1000		30	4				339	
TOLUENE	108-88-3	0.08 I		5 I		130	X	532.4	1,2,3,4	13016	14953	X	111	9.01
TOLUIDINE, M-	108-44-1		0.016 S ⁹		0.000051 S ⁹	140		15030	6			X	203	
TOLUIDINE, O-	95-53-4		0.016 P		0.000051 C	410		15000	1,3,5			X	200	18.07
TOLUIDINE, P-	106-49-0	0.004 X	0.03 P			320		7410	1,2,3				200.4	
TOXAPHENE	8001-35-2	0.00009 P	1.1 I		0.00032 I	1500		3	2,4,5				432	
TRIALATE	2303-17-5	0.025 O	0.717 O			2,000		4	5			X	343	
TRIBROMOMETHANE (BROMOFORM)	75-25-2	0.02 I	0.0079 I		0.0000011 I	130	X	3050	1,2,3,4	12942	14849	X	149.2	0.69
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	30 I		5 P		1200	X	170	1	13064	15014	X	47.7	0.35
TRICHLOROACETIC ACID	76-03-9	0.02 I	0.07 I			20	X	1200000	2,3,5,9	13291	15077		196	
TRICHLOROBENZENE, 1,2,4-	120-82-1	0.01 I	0.029 P	0.002 P		1500	X	44.4	1,4,6,7	13217	15233	X	213	0.69
TRICHLOROBENZENE, 1,3,5-	108-70-3	0.006 M		0.002 S ¹⁰		3100	X	5.8	5	15677	18611		208	
TRICHLOROETHANE, 1,1,1-	71-55-6	2 I		5 I		100	X	1495	1,4,5,6	13116	15082	X	74	0.05
TRICHLOROETHANE, 1,1,1,2-	79-00-5	0.004 I	0.057 I	0.0002 X	0.000016 I	76	X	4420	1	12982	14909	X	113.5	0.03
TRICHLOROETHYLENE (TCE)	79-01-6	0.0005 I	0.046 I	0.002 I	0.000004 I	93	X	1100	1	13070	15022	X	87	0.02
TRICHLOROPHENOL, 2,4,5-	95-95-4	0.1 I				2400		1000	1,2,4				245.5	0.14
TRICHLOROPHENOL, 2,4,6-	88-06-2	0.001 P	0.011 I		0.0000031 I	1,100		850	1,2,4,5				246	0.14
TRICHLOROPHENOXACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	0.01 I				43		278	2,4,5				279	1.39
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP) (SILVEX)	93-72-1	0.008 I				1,700		140	2				353	
TRICHLOROPROPANE, 1,1,2-	598-77-6	0.005 I				24	X	2700	14	13145	15119	X	117	
TRICHLOROPROPANE, 1,2,3-	96-18-4	0.004 I	30 I	0.0003 I		280	X	1896	1,4,6	12974	14896	X	156.8	0.35
TRICHLOROPROPENE, 1,2,3-	96-19-5	0.003 X		0.0003 P		190	X	2700	14	13047	14992	X	142	
TRIETHYLAMINE	121-44-8			0.007 I		51	X	55000	1,4	12951	14862	X	90	
TRIETHYLENE GLYCOL	112-27-6	2 P				6		1000000	12			X	285	
TRIFLURALIN	1582-09-8	0.0075 I	0.0077 I			720		4	2,5,6,7				382	
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	0.01 I		0.06 I		2200	X	56	1	12978	14904	X	169	4.50
TRIMETHYLBENZENE, 1,3,5-	108-67-8	0.01 I		0.06 I		660	X	48.9	1	12961	14876	X	165	
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.0001 P	0.017 P			115.8	X	1800	2,3,5	12941	14848	X	190	18.07
TRINITROTOLUENE, 2,4,6-	118-96-7	0.0005 I	0.03 I			1		100	2				240	
VINYL ACETATE	108-05-4	1 H		0.2 I		2.8	X	20000	1	13017	14955	X	72.5	
VINYL BROMIDE (BROMOETHENE)	593-60-2			0.003 I	0.000032 H	1500	X	4180	12	13086	15043	X	15.8	0.09
VINYL CHLORIDE	75-01-4	0.003 I	1.5 I	0.1 I	0.0000088 I	10	X	2700	1	13109	15040	X	-13.37	0.09

Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	RfCi (mg/m ³)	IUR (µg/m ³ -yr ⁻¹)	Koc	VOC?	Aqueous Solubility (mg/L)	Aqueous Solubility Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
WARFARIN	81-81-2	0.0003	I			910		17	4				356	4.50
XYLENES (TOTAL)	1330-20-7	0.2	I	0.1	I	350	X	175	13	12982	14909	X	140	0.69
ZINEB	12122-67-7	0.05	I			19		10	4				474	

Toxicity Value Sources:

C = California EPA

D = ATSDR Minimal Risk Level

H = Health Effects Assessment Summary Table (HEAST)

I = Integrated Risk Information System (IRIS)

M = EPA Drinking Water Regulations and Health Advisories

O = EPA Office of Pesticide Programs Human Health Benchmarks for Pesticides

P = EPA Provisional Peer-Reviewed Toxicity Value

X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

TE = TERA ITER Peer-Reviewed Value

S = Surrogate

Surrogates:

1. Acenaphthene surrogate

2. Trans-Crotonaldehyde surrogate

3. Endosulfan surrogate

4. Naphthalene surrogate

5. 2-Naphthylamine surrogate

6. 4-Nitrophenol surrogate

7. Total PCBs surrogate

8. Anthracene surrogate

9. O-Toluidine surrogate

10. 1,2,4-Trichlorobenzene surrogate