

APPENDIX A

CONTAMINANT PROPERTIES

Chemical	Formula	CAS #	M.W. (g/mol)	Solubility ^a (mg/L)	Vapor ^b Pres (mm Hg)	Henry's ^c Constant atm m ³ /mol	K _{oc} (ml/g)	Log K _{ow}
Tetrachloroethylene	C ₂ Cl ₄	127-18-4	165.82	150	14	.014	364	2.60
Trichloroethylene	C ₂ HCl ₃	79-01-6	131.38	1100	60	.007	126	2.38
1,1,1-Trichloroethane	C ₂ H ₃ Cl ₃	71-55-6	133.4	4400	100	.013	152	2.50
Vinyl Chloride	C ₂ H ₃ Cl	75-01-4	62.5	4270	2660	.022	57	1.38
Carbon Tetrachloride	CCl ₄	56-23-5	153.81	800	90	.023	110	2.64
Benzene	C ₆ H ₆	71-43-2	78.12	1780	95.2	.005	83	2.12
Pentachlorophenol	C ₆ HCl ₅ O	87-86-5	266.32	14	.00014	NA	53000	5.00
Toluene	C ₇ H ₈	108-88-3	92.15	515	22	.006	300	2.73
Polychlorinated Biphenyls	NA	1336-36- 3	NA	.031	7.70E+05	NA	5.30E+05	6.04

Notes: a.) Solubility reported at 25° C
b.) Vapor Pressure reported at 20° C
c.) Henry's Constant reported at 20° C