This table contains interim Superfund Chemical Data Matrix (SCDM) values for scoring sites using the proposed Subsurface Intrusion (SsI) component to the HRS. These substances are eligible substances, based on vapor pressure and Henry's Law Constant, that are commonly found at potential sites with subsurface intrusion issues and are not meant to represent a comprehensive list. Data used in scoring the other HRS pathways can be found using the SCDM Query at http://www.epa.gov/superfund/superfund-chemical-data-matrix-scdm-query.

Interim Subsurface Intrusion SCDM Values for Eligible Substances

CAS Number	Chemical Name	Vapor Pressure (Torr)	Henry's Law Constant (atm-m^3/mol)	Biodegradation Half-life (days)	Hydrolysis Half-life (days)	Overall Half-life (days)[1]	Toxicity	SsI Non-Cancer Risk Benchmark (mg/m^3)	SsI Cancer Risk Benchmark (mg/m^3)
000083-32-9	Acenaphthene	2.10E-03	1.80E-04	100		100	10		
000208-96-8	Acenaphthylene	6.60E-03	1.10E-04	60		60	1		
000071-43-2	Benzene	9.40E+01	5.50E-03	15		15	1000	0.03	0.00031
000056-23-5	Carbon Tetrachloride	1.10E+02	2.70E-02	360	2500000	359.9	1000	0.1	0.0004
000108-90-7	Chlorobenzene	1.20E+01	3.10E-03	140		140	100	0.05	
000067-66-3	Chloroform	1.90E+02	3.60E-03	180	1200000	180.0	100	0.1	0.0001
000106-46-7	Dichlorobenzene, 1,4-	1.70E+00	2.40E-03	170		170	10	0.8	0.00022
000075-34-3	Dichloroethane, 1,1-	2.20E+02	5.60E-03	150	22000	149.0	10		0.0015
000107-06-2	Dichloroethane, 1,2-	7.80E+01	1.10E-03	180	400	124.1	1000	0.007	0.000093
000075-35-4	Dichloroethylene, 1,1-	6.00E+02	2.60E-02	180	270	108	10	0.2	
000540-59-0	Dichloroethylene, 1,2- (Mixed Isomers)	2.00E+02	4.00E-03	180		180	100		
000156-59-2	Dichloroethylene, 1,2-cis-	2.00E+02	4.00E-03	31		31	1000		
000156-60-5	Dichloroethylene, 1,2-trans-	3.30E+02	9.30E-03				100	0.8	
000100-41-4	Ethylbenzene	9.60E+00	7.80E-03	9.9		9.9	10	1	0.00097
001634-04-4	Methyl tert-Butyl Ether (MTBE)	2.50E+02	5.80E-04	180		180	10	3	0.0093
000075-09-2	Methylene Chloride	4.30E+02	3.20E-03	28	250000	28	100	0.6	0.09
000091-20-3	Naphthalene	8.50E-02	4.40E-04	19		19	1000	0.003	0.000071
000079-34-5	Tetrachloroethane, 1,1,2,2-	4.60E+00	3.60E-04	180	45	36	100		0.000041
000127-18-4	Tetrachloroethylene	1.80E+01	1.70E-02	350	270	152.4	100	0.04	0.0093
000108-88-3	Toluene	2.80E+01	6.60E-03	21		21	10	5	
000071-55-6	Trichloroethane, 1,1,1-	1.20E+02	1.70E-02	270	260	132.5	1	5	
000079-00-5	Trichloroethane, 1,1,2-	2.30E+01	8.20E-04	360	13000	350.3	10000	0.0002	0.00015
000079-01-6	Trichloroethylene	6.90E+01	9.80E-03	360	320	169.4	1000	0.002	0.0004
000075-01-4	Vinyl Chloride	2.90E+03	2.70E-02	180	3600	171.4	10000	0.1	0.00016
001330-20-7	Xylenes	7.90E+00	6.60E-03	28		28	100	0.1	

[1] Use the substance specific half-life to calculate the degradation factor as directed in section 5.2.1.2.1.2 (Degradation) of the proposed HRS SsI Addition.