

Site-Specific Standard Vapor Intrusion Screening Values Based on EPA RSLs

Residential Conditions for a 10^{-5} Screening Value Cancer Risk



Note: May 2016 RSL values

Substance	CAS No.	Cancer RSL ($\mu\text{g}/\text{m}^3$)	Non-Cancer RSL ($\mu\text{g}/\text{m}^3$)	Indoor Air RSL-Based SV ($\mu\text{g}/\text{m}^3$)	Sub-Slab Soil Gas RSL-Based SV ($\mu\text{g}/\text{m}^3$)	Near-Source Soil Gas RSL-Based SV ($\mu\text{g}/\text{m}^3$)
Risk Basis		CR = 10^{-6}	HQ = 0.1	CR = 10^{-5} and HQ = 0.1		
Benzene	71-43-2	3.6E-01	3.1E+00	3.1	120	620
Cumene	98-82-8		4.2E+01	42	1,600	8,400
Dibromoethane, 1,2-	106-93-4	4.7E-03	9.4E-01	0.047	1.8	9.4
Dichloroethane, 1,1-	75-34-3	1.8E+00		18	690	3,600
Dichloroethane, 1,2-	107-06-2	1.1E-01	7.3E-01	0.73	28	150
Dichloroethylene, 1,1-	75-35-4		2.1E+01	21	810	4,200
Dichloroethylene, 1,2-cis-	156-59-2					
Dichloroethylene, 1,2-trans-	156-60-5					
Ethylbenzene	100-41-4	1.1E+00	1.0E+02	11	420	2,200
Methyl tert-Butyl Ether (MTBE)	1634-04-4	1.1E+01	3.1E+02	110	4,200	22,000
Naphthalene	91-20-3	8.3E-02	3.1E-01	0.31	12	62
Tetrachloroethylene (PCE)	127-18-4	1.1E+01	4.2E+00	4.2	160	840
Toluene	108-88-3		5.2E+02	520	20,000	100,000
Trichloroethane, 1,1,1-	71-55-6		5.2E+02	520	20,000	100,000
Trichloroethane, 1,1,2-	79-00-5	1.8E-01	2.1E-02	0.021	0.81	4.2
Trichloroethylene (TCE)	79-01-6	4.8E-01	2.1E-01	0.21	8.1	42
Trimethylbenzene, 1,2,3-	526-73-8		5.2E-01	0.52	20	100
Trimethylbenzene, 1,2,4-	95-63-6		7.3E-01	0.73	28	150
Trimethylbenzene, 1,3,5-	108-67-8					
Vinyl Chloride	75-01-4	1.7E-01	1.0E+01	1.7	65	340
Xylenes	1330-20-7		1.0E+01	10	380	2,000