

RSL-Based Screening Value Exercise
US EPA Indoor Air Regional Screening Levels (RSLs)
May 2016

Residential

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = APPENDIX PPRTV SCREEN (See FAQ #27); H = HEAST; F = See FAQ; J = New Jersey; O = EPA Office of Water; E = see user guide Section 2.3.5; L = see user guide on lead; M = mutagen; S = see user guide Section 5; V = volatile; R = RBA applied (See User Guide for Arsenic notice) ; c = cancer; n = noncancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; SSL values are based on DAF=1; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide)

| Toxicity and Chemical-specific Information | | | | | Contaminant | | Carcinogenic Target Risk (TR) = 1E-06 | Noncancer Hazard Index (HI) = 0.1 |
|--|-------------|--|-------------|------------------------|--------------------------------|-----------|---|---|
| IUR (ug/m ³) ⁻¹ | k e y | RfC _i (mg/m ³) | k e y | v o l mutagen | Analyte | CAS No. | Carcinogenic SL TR=1E-06 (ug/m ³) | Noncarcinogenic SL THI=0.1 (ug/m ³) |
| 7.8E-06 | I | 3.0E-02 | I | V | Benzene | 71-43-2 | 3.6E-01 | 3.1E+00 |
| | | 4.0E-01 | I | V | Cumene | 98-82-8 | | 4.2E+01 |
| 6.0E-04 | I | 9.0E-03 | I | V | Dibromoethane, 1,2- | 106-93-4 | 4.7E-03 | 9.4E-01 |
| 1.6E-06 | C | | | V | Dichloroethane, 1,1- | 75-34-3 | 1.8E+00 | |
| 2.6E-05 | I | 7.0E-03 | P | V | Dichloroethane, 1,2- | 107-06-2 | 1.1E-01 | 7.3E-01 |
| | | 2.0E-01 | I | V | Dichloroethylene, 1,1- | 75-35-4 | | 2.1E+01 |
| | | | | V | Dichloroethylene, 1,2-cis- | 156-59-2 | | |
| | | | | V | Dichloroethylene, 1,2-trans- | 156-60-5 | | |
| 2.5E-06 | C | 1.0E+00 | I | V | Ethylbenzene | 100-41-4 | 1.1E+00 | 1.0E+02 |
| 2.6E-07 | C | 3.0E+00 | I | V | Methyl tert-Butyl Ether (MTBE) | 1634-04-4 | 1.1E+01 | 3.1E+02 |
| 3.4E-05 | C | 3.0E-03 | I | V | ~Naphthalene | 91-20-3 | 8.3E-02 | 3.1E-01 |
| 2.6E-07 | I | 4.0E-02 | I | V | Tetrachloroethylene | 127-18-4 | 1.1E+01 | 4.2E+00 |
| | | 5.0E+00 | I | V | Toluene | 108-88-3 | | 5.2E+02 |
| | | 5.0E+00 | I | V | Trichloroethane, 1,1,1- | 71-55-6 | | 5.2E+02 |
| 1.6E-05 | I | 2.0E-04 | X | V | Trichloroethane, 1,1,2- | 79-00-5 | 1.8E-01 | 2.1E-02 |
| 4.1E-06 | I | 2.0E-03 | I | V | Trichloroethylene | 79-01-6 | 4.8E-01 | 2.1E-01 |
| | | 5.0E-03 | P | V | Trimethylbenzene, 1,2,3- | 526-73-8 | | 5.2E-01 |
| | | 7.0E-03 | P | V | Trimethylbenzene, 1,2,4- | 95-63-6 | | 7.3E-01 |
| | | | | V | Trimethylbenzene, 1,3,5- | 108-67-8 | | |
| 4.4E-06 | I | 1.0E-01 | I | V | Vinyl Chloride | 75-01-4 | 1.7E-01 | 1.0E+01 |
| | | 1.0E-01 | I | V | Xylenes | 1330-20-7 | | 1.0E+01 |