

Indoor Air Remediation Objectives Calculated using J&E1 and J&E2<sup>a</sup>

CAS No.	Chemical	Indoor Air Remediation Objective (mg/m <sup>3</sup> ) <sup>b</sup>	
		Residential	Industrial/Commercial
67-64-1	Acetone	32 <sup>c</sup>	45 <sup>c</sup>
71-43-2	Benzene	0.00031 <sup>d</sup>	0.00052 <sup>d</sup>
111-44-4	Bis(2-chloroethyl)ether	0.0000074 <sup>d</sup>	0.000012 <sup>d</sup>
75-27-4	Bromodichloromethane	0.000066 <sup>d</sup>	0.00011 <sup>d</sup>
75-25-2	Bromoform	0.0022 <sup>d</sup>	0.0037 <sup>d</sup>
71-36-3	Butanol	---- <sup>e</sup>	---- <sup>e</sup>
78-93-3	2-Butanone (MEK)	5.2 <sup>c</sup>	7.3 <sup>c</sup>
75-15-0	Carbon disulfide	0.73 <sup>c</sup>	1.0 <sup>c</sup>
56-23-5	Carbon tetrachloride	0.00041 <sup>d</sup>	0.00068 <sup>d</sup>
108-90-7	Chlorobenzene	0.052 <sup>c</sup>	0.073 <sup>c</sup>
124-48-1	Chlorodibromomethane	---- <sup>e</sup>	---- <sup>e</sup>
67-66-3	Chloroform	0.00011 <sup>d</sup>	0.00018 <sup>d</sup>
95-57-8	2-Chlorophenol	---- <sup>e</sup>	---- <sup>e</sup>
75-99-0	Dalapon	---- <sup>e</sup>	---- <sup>e</sup>
96-12-8	1,2-dibromo-3-chloropropane	0.00000041 <sup>d</sup>	0.00000068 <sup>d</sup>
106-93-4	1,2-Dibromoethane	0.0000041 <sup>d</sup>	0.0000068 <sup>d</sup>
95-50-1	1,2-Dichlorobenzene	0.21 <sup>c</sup>	0.29 <sup>c</sup>
106-46-7	1,4-Dichlorobenzene	0.00022 <sup>d</sup>	0.00037 <sup>d</sup>
75-71-8	Dichlorodifluoromethane	0.10 <sup>c</sup>	0.15 <sup>c</sup>
75-34-3	1,1-Dichloroethane	0.52 <sup>c</sup>	0.73 <sup>c</sup>
107-06-2	1,2-Dichloroethane	0.000094 <sup>d</sup>	0.00016 <sup>d</sup>
75-35-4	1,1-Dichloroethylene	0.21 <sup>c</sup>	0.29 <sup>c</sup>
156-59-2	<i>cis</i> -1,2-Dichloroethylene	---- <sup>e</sup>	---- <sup>e</sup>
156-60-5	<i>trans</i> -1,2-Dichloroethylene	0.063 <sup>c</sup>	0.088 <sup>c</sup>
78-87-5	1,2-Dichloropropane	0.00024 <sup>d</sup>	0.00041 <sup>d</sup>
542-75-6	1,3-Dichloropropylene ( <i>cis</i> + <i>trans</i> )	0.00061 <sup>d</sup>	0.0010 <sup>d</sup>
123-91-1	p-Dioxane	0.00032 <sup>d</sup>	0.00053 <sup>d</sup>
100-41-4	Ethylbenzene	0.00097 <sup>d</sup>	0.0016 <sup>d</sup>
76-44-8	Heptachlor	0.0000019 <sup>d</sup>	0.0000031 <sup>d</sup>
118-74-1	Hexachlorobenzene	0.0000053 <sup>d</sup>	0.0000089 <sup>d</sup>
77-47-4	Hexachlorocyclopentadiene	0.00021 <sup>c</sup>	0.00029 <sup>c</sup>
67-72-1	Hexachloroethane	0.00022 <sup>d</sup>	0.00037 <sup>d</sup>
78-59-1	Isophorone	2.1 <sup>c</sup>	2.9 <sup>c</sup>
98-82-8	Isopropylbenzene (Cumene)	0.42 <sup>c</sup>	0.58 <sup>c</sup>
7439-97-6	Mercury	0.00031 <sup>c</sup>	0.00044 <sup>c</sup>
74-83-9	Methyl bromide	0.0052 <sup>c</sup>	0.0073 <sup>c</sup>
1634-04-4	Methyl tertiary-butyl ether	3.1 <sup>c</sup>	4.4 <sup>c</sup>
75-09-2	Methylene chloride	0.24 <sup>d</sup>	0.41 <sup>d</sup>

CAS No.	Chemical	Indoor Air Remediation Objective (mg/m <sup>3</sup> ) <sup>b</sup>	
		Residential	Industrial/Commercial
93-65-2	2-Methylnaphthalene	---- <sup>e</sup>	---- <sup>e</sup>
95-48-7	2-Methylphenol (o-cresol)	0.63 <sup>c</sup>	0.88 <sup>c</sup>
91-20-3	Naphthalene	0.000072 <sup>d</sup>	0.00012 <sup>d</sup>
98-95-3	Nitrobenzene	0.000061 <sup>d</sup>	0.00010 <sup>d</sup>
621-64-7	n-Nitrosodi-n-propylamine	0.0000012 <sup>d</sup>	0.0000020 <sup>d</sup>
108-95-2	Phenol	0.21 <sup>c</sup>	0.29 <sup>c</sup>
1336-36-3	Polychlorinated biphenyls (PCBs)	--- <sup>f</sup>	--- <sup>f</sup>
100-42-5	Styrene	1.0 <sup>c</sup>	1.5 <sup>c</sup>
127-18-4	Tetrachloroethylene	0.0094 <sup>d</sup>	0.016 <sup>d</sup>
108-88-3	Toluene	5.2 <sup>c</sup>	7.3 <sup>c</sup>
120-82-1	1,2,4-Trichlorobenzene	0.0021 <sup>c</sup>	0.0029 <sup>c</sup>
71-55-6	1,1,1-Trichloroethane	5.2 <sup>c</sup>	7.3 <sup>c</sup>
79-00-5	1,1,2-Trichloroethane	0.00021 <sup>c</sup>	0.00029 <sup>c</sup>
79-01-6	Trichloroethylene	0.00059 <sup>d</sup>	0.0010 <sup>d</sup>
75-69-4	Trichlorofluoromethane	0.73 <sup>c</sup>	1.0 <sup>c</sup>
108-05-4	Vinyl acetate	0.21 <sup>c</sup>	0.29 <sup>c</sup>
75-01-4	Vinyl chloride	0.00028 <sup>d</sup>	0.00093 <sup>d</sup>
108-38-3	m-Xylene	0.10 <sup>c</sup>	0.15 <sup>c</sup>
95-47-6	o-Xylene	0.10 <sup>c</sup>	0.15 <sup>c</sup>
106-42-3	p-Xylene	0.10 <sup>c</sup>	0.15 <sup>c</sup>
1330-20-7	Xylenes (total)	0.10 <sup>c</sup>	0.15 <sup>c</sup>

- <sup>a</sup> When applying these remediation objectives to the breathing zone, mixtures of similar-acting chemicals must be considered. For a list of similar-acting noncarcinogenic chemicals see 742.Appendix A, Table E. For a list of similar-acting carcinogenic chemicals see 742.Appendix A, Table F.
- <sup>b</sup> For chemicals in which the reporting limit is greater than the listed remediation objective, consult the Bureau of Land project manager for guidance.
- <sup>c</sup> Calculated values correspond to a target hazard quotient of 1.
- <sup>d</sup> Calculated values correspond to a cancer risk level of 1 in 1,000,000.
- <sup>e</sup> No toxicity criteria available for this route of exposure.
- <sup>f</sup> PCBs are a mixture of different congeners. The appropriate toxicity values depend on the congeners present at the site. Persons remediating sites should consult with BOL if calculation of Tier 2 or 3 remediation objectives is desired.