

Indoor Air Remediation Objectives Calculated using J&E1 and J&E2^a

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

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

- ^a 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.
- ^b For chemicals in which the reporting limit is greater than the listed remediation objective, consult the Bureau of Land project manager for guidance.
- ^c Calculated values correspond to a target hazard quotient of 1.
- ^d Calculated values correspond to a cancer risk level of 1 in 1,000,000.
- ^e No toxicity criteria available for this route of exposure.
- ^f 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.