

Ambient air toxicity values used by MPCA

Updated February 20, 2019

All values in units of *ug/m3*.

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
75-07-0	Acetaldehyde	470	9	5	CAL EPA	IRIS	HRV
60-35-5	Acetamide			0.5			CAL EPA
75-86-5	Acetone Cyanohydrin		2			PPRTV	
75-05-8	Acetonitrile		60			HRV	
107-02-8	Acrolein	5	0.4		HBV	HBV	
79-06-1	Acrylamide		6	0.1		IRIS	IRIS
79-10-7	Acrylic acid	6000	1		CAL EPA	IRIS	
107-13-1	Acrylonitrile		2	0.1		IRIS	HRV
111-69-3	Adiponitrile		6			PPRTV	
00-07-9	Aldehydes	94	0.08	2	HRV	CAL EPA	MDH
309-00-2	Aldrin			0			IRIS
VARIOUS	Aliphatic Hydrocarbon Streams (Midrange)		100	0		PPRTV	PPRTV
75-85-4	Amyl Alcohol, tert-						
107-05-1	Allyl chloride		1	1.7		IRIS	CAL EPA
7429-90-5	Aluminum		5			PPRTV	
117-79-3	Aminoanthraquinone, 2-			1.1			CAL EPA
7664-41-7	Ammonia	3200	80		HRV	HRV	
62-53-3	Aniline		1	6.3		IRIS	CAL EPA
191-26-4	Anthanthrene			0.03			MDH
7440-36-0	Antimony		0.2			HRV	
0-00-1	Antimony Compounds		0.2			HRV	

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
1309-64-4	Antimony trioxide		0.2			HRV	
140-57-8	Aramite			1.4			IRIS
7440-38-2	Arsenic	0.2	0.02	0	CAL EPA	CAL EPA	HRV
0-00-2	Arsenic Compounds	0.2	0.02	0	CAL EPA	CAL EPA	HRV
1327-53-3	Arsenic Trioxide	0.2	0.02	0	CAL EPA	CAL EPA	HRV
7784-42-1	Arsine	200	0.05		HRV	IRIS	
123-77-3	Azodicarbonamide		0.01			PPRTV	
71-43-2	Benzene	1000	30	1.3	HRV	IRIS	HRV
92-87-5	Benzidine			0			HRV
202-94-8	11H-Benz[b,c]aceanthrylene			0.2			HRV
199-54-2	Benz[e]aceanthrylene			0.01			MDH
202-33-5	Benz[j]aceanthrylene			0			MDH
211-91-6	Benz[l]aceanthrylene			0			MDH
205-82-3	Benzo(j)fluoranthene			0.03			MDH
207-08-9	Benzo(k)fluoranthene			0.33			MDH
56-55-3	Benzo[a]anthracene			0.05			MDH
50-32-8	Benzo[a]pyrene			0.01			MDH
205-99-2	Benzo[b]fluoranthene			0.01			MDH
205-12-9	Benzo[c]fluorene			0			MDH
191-24-2	Benzo[g,h,i]perylene			1.12			MDH
100-44-7	Benzyl chloride	240	1	0.2	CAL EPA	PPRTV	CAL EPA
7440-41-7	Beryllium		0.02	0		IRIS	HRV
0-00-3	Beryllium Compounds		0.02	0		IRIS	HRV
92-52-4	Biphenyl, 1,1-						
117-81-7	Bis(2-ethylhexyl)phthalate (DEHP)			4.2			CAL EPA

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
542-88-1	Bis(chloromethyl)ether			0			HRV
10294-34-5	Boron Trichloride		20			PPRTV	
108-86-1	Bromobenzene		60			IRIS	
74-97-5	Bromochloromethane						
75-25-2	Bromoform			9.1			IRIS
74-83-9	Bromomethane	2000	5		HRV	HRV	
106-94-5	Bromopropane, 1-	50000	20		HBV	HBV	
106-99-0	Butadiene, 1,3-	660	2	0.2	CAL EPA	IRIS	HBV
78-92-2	Butyl alcohol, sec-		30000			PPRTV	
111-76-2	Butyl Cellosolve (ethylene glycol monobutyl ether)	14000	13000		CAL EPA	HRV	
7440-43-9	Cadmium		0.02	0.01		CAL EPA	HRV
0-00-4	Cadmium Compounds		0.02	0.01		CAL EPA	HRV
105-60-2	Caprolactum	50	2.2		CAL EPA	CAL EPA	
75-15-0	Carbon disulfide	6000	700		HRV	HRV	
630-08-0	Carbon Monoxide	23000			CAL EPA		
56-23-5	Carbon tetrachloride	1900	100	1.7	CAL EPA	IRIS	IRIS
463-58-1	Carbonyl sulfide	660	100		CAL EPA	PPRTV	
111-15-9	Cellosolve Acetate (ethylene glycol monoethyl ether acetate)	100	300		HRV	CAL EPA	
1306-38-3	Cerium Oxide and Cerium Compounds		0.9			IRIS	
12789-03-6	Chlordane or (57-74-9)		0.7	0.1		IRIS	IRIS
108171-26-2	Chlorinated Paraffins (C12, 60% Chlorine)			0.4			CAL EPA
7782-50-5	Chlorine	290	0.2		HRV	CAL EPA	
10049-04-4	Chlorine Oxide (CLO2)		0.2			IRIS	

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
75-68-3	Chloro-1,1-difluoroethane, 1- (HCFC-142b)		50000			IRIS	
532-27-4	Chloroacetophenone, 2-		0.03			HRV	
108-90-7	Chlorobenzene		1000			CAL EPA	
98-56-6	Chlorobenzotrifluoride, 4-		300			PPRTV	
75-45-6	Chlorodifluoromethane (HCFC-22)		50000			IRIS	
67-66-3	Chloroform	150	300	0.43	HRV	CAL EPA	IRIS
88-73-3	Chloronitrobenzene, o-						
100-00-5	Chloronitrobenzene, p-		2			PPRTV	
95-83-0	Chloro-o-phenylenediamine, 4-			2.2			CAL EPA
95-69-2	Chloro-o-toluidine, p-			0.13			CAL EPA
76-06-2	Chloropicrin	29	0.4		CAL EPA	CAL EPA	
126-99-8	Chloroprene		20	0.03		IRIS	IRIS
7440-47-3	Chromium		0.01	0		IRIS	HRV
18540-29-9	Chromic acid mists and dissolved Cr(VI) aerosols		0.01	0		IRIS	HRV
18540-29-9	Chromium (Hexavalent) (particulate)		0.1	0		IRIS	HRV
0-00-5	Chromium Compounds		0.01	0		IRIS	HRV
218-01-9	Chrysene (Benzo(a)phenanthrene)			0.1			MDH
8007-45-2	Coal Tar			0.02			HRV
7440-48-4	Cobalt		0.01	0		PPRTV	PPRTV
0-00-7	Coke Oven Emissions			0.02			HRV
7440-50-8	Copper	100			CAL EPA		
00-03-1	Copper Compounds	100			CAL EPA		
120-71-8	Cresidine, p-			0.23			CAL EPA

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
108-39-4	Cresol, m-		600			CAL EPA	
95-48-7	Cresol, o-		600			CAL EPA	
106-44-5	Cresol, p-		600			CAL EPA	
1319-77-3	Cresols/Cresylic acid (isomers and mixture)		600			CAL EPA	
98-82-8	Cumene		400			IRIS	
135-20-6	Cupferron			0.16			CAL EPA
57-12-5	Cyanide (Cyanide ion, Inorganic cyanides, Isocyanide)	700	3		HRV	HRV	
0-00-8	Cyanide Compounds	700	3		HRV	HRV	
110-82-7	Cyclohexane		6000			IRIS	
109-94-1	Cyclohexanone		700			PPRTV	
27208-37-3	Cyclopenta[c,d]pyrene			0.03			MDH
202-98-2	4H-Cyclopenta[d,e,f]chrysene			0.03			MDH
50-29-3	DDT			0.1			IRIS
615-05-4	Diaminoanisole, 2,4-			1.5			CAL EPA
103-33-3	Diazene, Diphenyl			0.32			IRIS
226-36-8	Dibenz(a,h)acridine			0.1			MDH
224-42-0	Dibenz(a,j)acridine			0.1			MDH
53-70-3	Dibenz[a,h]anthracene			0			MDH
5385-75-1	Dibenzo[a,e]fluoranthene			0.01			MDH
192-65-4	Dibenzo(a,e)pyrene			0.03			MDH
189-64-0	Dibenzo(a,h)pyrene			0.01			MDH
191-30-0	Dibenzo(a,l)pyrene			0			MDH
194-59-2	Dibenzo(c,g)carbazole, 7H-			0.01			MDH
189-55-9	Dibenzo[a,i]pyrene			0.02			MDH
96-12-8	Dibromo-3-chloropropane, 1,2-		0.2	0		IRIS	CAL EPA

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
106-46-7	Dichlorobenzene(p), 1,4-		800	0.91		IRIS	CAL EPA
25321-22-6	Dichlorobenzenes		800	0.91		IRIS	CAL EPA
91-94-1	Dichlorobenzidene, 3,3-			0.03			CAL EPA
764-41-0	Dichloro-2-butene, 1,4-			0			PPRTV
1476-11-5	Dichloro-2-butene, cis-1,4-			0			PPRTV
75-71-8	Dichlorodifluoromethane (CFC-12)						
111-44-4	Dichloroethyl ether (Bis(2-chloroethyl)ethe			0.03			IRIS
75-35-4	Dichloroethylene (1,1-) (Vinylidene chloride)		200			IRIS	
156-60-5	Dichloroethylene, trans-1,2-						
542-75-6	Dichloropropene, 1,3-		20	2.5		HRV	IRIS
62-73-7	Dichlorvos		0.5			HRV	
77-73-6	Dicyclopentadiene						
60-57-1	Dieldrin			0			IRIS
0-02-4	Diesel exhaust particulate		5			HRV	
111-42-2	Diethanolamine		3			CAL EPA	
112-34-5	Diethylene Glycol Monobutyl Ether		0.1			PPRTV	
111-90-0	Diethylene Glycol Monoethyl Ether		0.3			PPRTV	
75-37-6	Difluoroethane, 1,1-		40000			IRIS	
108-20-3	Diisopropyl Ether		700			PPRTV	
60-11-7	Dimethyl aminoazobenzene			0.01			CAL EPA
68-12-2	Dimethyl formamide		30			HRV	
108-01-0	Dimethylamino ethanol, 2-						
57-97-6	Dimethylbenz[a]anthracene, 7,12-						
57-14-7	Dimethylhydrazine, 1,1-						

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
42397-64-8	Dinitropyrene, 1,6- (BaP)			0			MDH
42397-65-9	Dinitropyrene, 1,8- (BaP)			0.01			MDH
121-14-2	Dinitrotoluene, 2,4-			0.11			CAL EPA
123-91-1	Dioxane, 1,4- (1,4-Diethylene dioxide)	3000	30	2	HRV	IRIS	IRIS
122-66-7	Diphenylhydrazine, 1,2-			0.04			IRIS
106-89-8	Epichlorohydrin (l-Chloro-2,3-epoxypropane)	1300	1	8	CAL EPA	IRIS	HRV
106-88-7	Epoxybutane, 1,2-		20			HRV	
141-78-6	Ethyl acetate		70			PPRTV	
140-88-5	Ethyl Acrylate		8			PPRTV	
110-80-5	Ethoxyethanol, 2- (ethylene glycol monoethyl ether)	400	200		HRV	IRIS	
100-41-4	Ethyl benzene	10000	1000	4	HRV	IRIS	CAL EPA
51-79-6	Ethyl carbamate (Urethane)			0.03			CAL EPA
75-00-3	Ethyl chloride (Chloroethane)	1e+05	10000		HRV	IRIS	
97-63-2	Ethyl Methacrylate		300			PPRTV	
106-93-4	Ethylene dibromide (Dibromoethane)		9	0.05		IRIS	HRV
107-06-2	Ethylene dichloride (1,2-Dichloroethane)		400	0.38		CAL EPA	IRIS
107-21-1	Ethylene glycol		400			CAL EPA	
75-21-8	Ethylene oxide		30	0		CAL EPA	IRIS
96-45-7	Ethylene thiourea			0.77			CAL EPA
75-34-3	Ethylidene dichloride (1,1-Dichloroethane)			6.3			CAL EPA
206-44-0	Fluoranthene			0.13			MDH
1101	Fluorides (except hydrogen fluoride)		13			CAL EPA	
50-00-0	Formaldehyde	94	9	2	HRV	CAL EPA	MDH

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
64-18-6	Formic Acid						
111-30-8	Glutaraldehyde		0.08			CAL EPA	
0-01-2	Glycol ethers	90	20		HRV	IRIS	
76-44-8	Heptachlor			0.01			IRIS
1024-57-3	Heptachlor epoxide			0			IRIS
00-08-5	Heptachlorodibenzodioxin, All Isomers		0	0		MPCA	MPCA
67562-39-4	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-		0	0		MPCA	MPCA
55673-89-7	Heptachlorodibenzofuran, 1,2,3,4,7,8,9-		0	0		MPCA	MPCA
00-08-4	Heptachlorodibenzofuran, All Isomers		0	0		MPCA	MPCA
35822-46-9	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-		0	0		MPCA	MPCA
142-82-5	Heptane, N		400			PPRTV	
118-74-1	Hexachlorobenzene			0.02			IRIS
87-68-3	Hexachlorobutadiene			0.45			IRIS
608-73-1	Hexachlorocyclohexane (technical grade)			0.02			IRIS
319-84-6	Hexachlorocyclohexane, alpha-			0.01			IRIS
319-85-7	Hexachlorocyclohexane, beta-1,2,3,4,5,6-			0.02			IRIS
77-47-4	Hexachlorocyclopentadiene		0.2			IRIS	
00-08-3	Hexachlorodibenzodioxins, All Isomers		0	0		MPCA	MPCA
70648-26-9	Hexachlorodibenzofuran, 1,2,3,4,7,8-		0	0		MPCA	MPCA
57117-44-9	Hexachlorodibenzofuran, 1,2,3,6,7,8-		0	0		MPCA	MPCA
72918-21-9	Hexachlorodibenzofuran, 1,2,3,7,8,9-		0	0		MPCA	MPCA

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
60851-34-5	Hexachlorodibenzofuran, 2,3,4,6,7,8-		0	0		MPCA	MPCA
00-08-2	Hexachlorodibenzofurans, All Isomers		7171	0		MPCA	MPCA
39227-28-6	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-		0	0		MPCA	MPCA
57653-85-7	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-		0	0		MPCA	IRIS
19408-74-3	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-		0	0		MPCA	IRIS
67-72-1	Hexachloroethane		30	2.5		IRIS	IRIS
822-06-0	Hexamethylene-1,6-diisocyanate		0.01			HRV	
110-54-3	Hexane		2000	50		HRV	PPRTV
591-78-6	Hexanone-2		30			IRIS	
302-01-2	Hydrazine		0.2	0		CAL EPA	HRV
10034-93-2	Hydrazine sulfate			0			HRV
7647-01-0	Hydrochloric acid (hydrogen chloride)	2700	20		HRV	HRV	
74-90-8	Hydrogen cyanide	700	3		HRV	HRV	
7664-39-3	Hydrogen fluoride (Hydrofluoric acid)	240	14		HRV	CAL EPA	
7783-07-5	Hydrogen selenide	5			CAL EPA		
7783-06-4	Hydrogen sulfide	42	2		CAL EPA	IRIS	
193-39-5	Indeno(1,2,3-cd)pyrene			0.14			MDH
78-59-1	Isophorone		2000			CAL EPA	
67-63-0	Isopropyl alcohol	3200	7000		CAL EPA	CAL EPA	
7439-92-1	Lead		0.15	0.83		NAAQS	CAL EPA
7758-97-6	Lead Chromate		0.01	0		IRIS	HRV
0-01-3	Lead Compounds		0.15	0.83		NAAQS	CAL EPA

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
58-89-9	Lindane (all isomers)			0.03			CAL EPA
00-07-8	m- and p-Xylenes	43000	100		HRV	IRIS	
108-31-6	Maleic anhydride		0.7			CAL EPA	
7439-96-5	Manganese		0.2			HRV	
0-01-4	Manganese Compounds		0.2			HRV	
1313-13-9	Manganese Dioxide		0.2			HRV	
7439-97-6	Mercury (elemental)	0.6	0.3		CAL EPA	IRIS	
0-02-3	Mercury Compounds	0.6	0.3		CAL EPA	IRIS	
126-98-7	Methacrylonitrile		30			PPRTV	
67-56-1	Methanol	25000	20000		HRV	IRIS	
109-86-4	Methoxyethanol, 2-(ethylene glycol monomethyl ether EGME)	90	20		HRV	IRIS	
96-33-3	Methyl acrylate		20			PPRTV	
74-83-9	Methyl bromide (Bromomethane)	2000	5		HRV	HRV	
110-49-6	Methyl Cellosolve Acetate		90			CAL EPA	
74-87-3	Methyl chloride (Chloromethane)		90			IRIS	
71-55-6	Methyl chloroform (1,1,1-Trichloroethane)	140000	5000		HRV	IRIS	
78-93-3	Methyl ethyl ketone (2-Butanone)	10000	5000		HRV	IRIS	
60-34-4	Methyl Hydrazine						
108-10-1	Methyl isobutyl ketone (Hexone)		3000			IRIS	
624-83-9	Methyl isocyanate		1			CAL EPA	
80-62-6	Methyl methacrylate		700			HRV	
1634-04-4	Methyl tert butyl ether		3000	38		IRIS	CAL EPA
56-49-5	Methylcholanthrene, 3-			0			MDH

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
3697-24-3	Methylchrysene, 5-			0.01			MDH
101-14-4	Methylene bis(2-chloroaniline), 4,4-			0.02			CAL EPA
74-95-3	Methylene Bromide						
75-09-2	Methylene chloride (Dichloromethane)	10000	600	20	HRV	IRIS	HRV
101-68-8	Methylene diphenyl diisocyanate (MDI)	12	0.6		CAL EPA	HRV	
101-77-9	Methylenedianiline, 4,4-		20	0.02		CAL EPA	CAL EPA
90-94-8	Michler's ketone			0.04			CAL EPA
10595-95-6	N- Nitrosomethylethylamine			0			CAL EPA
64724-95-6	Naphtha, High Flash Aromatic (HFAN)		100			PPRTV	
91-20-3	Naphthalene	200	9	9	HBV	HBV	MDH
193-09-9	Naphtho[2,3-e]pyrene			0.03			MDH
7440-02-0	Nickel	11	0.01	0.02	HRV	CAL EPA	HRV
0-01-5	Nickel Compounds	11	0.01	0.02	HRV	CAL EPA	HRV
1313-99-1	Nickel oxide	11	0.02	0.04	HRV	CAL EPA	CAL EPA
0-02-5	Nickel refinery dust from the pyrometallurgical process	11	0.01	0.04	HRV	CAL EPA	IRIS
12035-72-2	Nickel sulfide (Ni3S2)	11	0.01	0.02	HRV	CAL EPA	HRV
7697-37-2	Nitric acid	130			HRV		
602-87-9	Nitroacenaphthene, 5-			0.5			MDH
88-74-4	Nitroaniline, 2-						
100-01-6	Nitroaniline, 4-		6			PPRTV	
98-95-3	Nitrobenzene		9	0.25		IRIS	IRIS
7496-02-8	Nitrochrysene, 6-			0			MDH

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
607-57-8	Nitrofluorene, 2-			1			MDH
10102-44-0	Nitrogen dioxide (NO2)	470			HBV		
75-52-5	Nitromethane		5	1.1		PPRTV	PPRTV
79-46-9	Nitropropane, 2-		20			HRV	
5522-43-0	Nitropyrene, 1-0			0.1			MDH
57835-92-4	Nitropyrene, 4-			0.1			MDH
156-10-5	Nitrosodiphenylamine, p-			1.6			CAL EPA
55-18-5	N-Nitrosodiethylamine			0			IRIS
62-75-9	N-Nitrosodimethylamine			0			IRIS
924-16-3	N-Nitrosodi-n-butylamine			0.01			IRIS
621-64-7	N-Nitrosodi-n-propylamine			0			CAL EPA
86-30-6	N-Nitrosodiphenylamine			3.8			CAL EPA
59-89-2	N-Nitrosomorpholine			0.01			CAL EPA
100-75-4	N-Nitrosopiperidine			0			CAL EPA
111-84-2	N-Nonane		20			PPRTV	
39001-02-0	Octachlorodibenzofuran, 1,2,3,4,6,7,8,9-		0.13	0		MPCA	MPCA
3268-87-9	Octachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8,9-		0.13	0		MPCA	MPCA
10028-15-6	Ozone	180			CAL EPA		
00-08-1	Pentachlorodibenzodioxins, All Isomers		0	0		MPCA	MPCA
57117-41-6	Pentachlorodibenzofuran, 1,2,3,7,8-		0	0		MPCA	MPCA
57117-31-4	Pentachlorodibenzofuran, 2,3,4,7,8-		0	0		MPCA	MPCA
00-09-0	Pentachlorodibenzofurans, All Isomers		0	0		MPCA	MPCA
40321-76-4	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-		0	0		MPCA	MPCA

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
87-86-5	Pentachlorophenol			2			CAL EPA
109-66-0	Pentane, n-		1000			PPRTV	
00-07-7	Petroleum Hydrocarbons, Aliphatic (C7 - C11)			2.5			PPRTV
85-01-8	Phenanthrene						
108-95-2	Phenol	5800	200		HRV	CAL EPA	
75-44-5	Phosgene	4	0.3		HRV	IRIS	
7803-51-2	Phosphine		0.3			IRIS	
7664-38-2	Phosphoric acid		10			IRIS	
85-44-9	Phthalic anhydride		20			CAL EPA	
1336-36-3	Polychlorinated biphenyls (Aroclors unspeciated)		0	0.1		CAL EPA	IRIS
32598-13-3	PCB 77 (3,3,4,4-Tetrachlorobiphenyl)		0.4	0		CAL EPA	Cal EPA
70362-50-4	PCB 81 (3,4,4,5-Tetrachlorobiphenyl)		0.13	0		CAL EPA	Cal EPA
32598-14-4	PCB105 (2,3,3,4,4-Pentachlorobiphenyl)		1.3	0		CAL EPA	Cal EPA
74472-37-0	PCB 114 (2,3,4,4,5-Pentachlorobiphenyl)		1.3	0		CAL EPA	Cal EPA
31508-00-6	PCB 118 (2,3,4,4,5-Pentachlorobiphenyl)		1.3	0		CAL EPA	Cal EPA
65510-44-3	PCB 123 (2,3,4,4,5-Pentachlorobiphenyl)		1.3	0		CAL EPA	Cal EPA
57465-28-8	PCB 126 (3,3,4,4,5-Pentachlorobiphenyl)		0	0		CAL EPA	Cal EPA
38380-0804	PCB 156 (2,3,3,4,4,5-Hexachlorobiphenyl)		1.3	0		CAL EPA	Cal EPA
69782-90-7	PCB 157 (2,3,3,4,4,5-Hexachlorobiphenyl)		1.3	0		CAL EPA	Cal EPA
52663-72-6	PCB 167 (2,3,4,4,5,5-Hexachlorobiphenyl)		1.3	0.03		CAL EPA	Cal EPA

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
32774-16-6	PCB 169 (3,3,4,4,5,5 Hexachlorobiphenyl)		0	0		CAL EPA	Cal EPA
39635-31-9	PCB 189 (2,3,3,4,4,5,5 Heptachlorobiphenyl)		1.3	0		CAL EPA	Cal EPA
00-05-0	Polychlorinated Dibenzodioxins, Total		0	0		CAL EPA	MPCA
00-05-1	Polychlorinated Dibenzofurans, Total		0	0		MPCA	MPCA
00-08-0	Polychlorinated Dibenzo-P-Dioxins And Furans, Total		0	0		CAL EPA	MPCA
130498-29-2	Polycyclic Aromatic Hydrocarbons (PAH)			0.01			MDH
00-01-7	Polycyclic Organic Matter (POM)			0.11			MPCA/MDH
9016-87-9	Polymeric diphenylmethane diisocyanate		0.6			HRV	
7758-01-2	Potassium bromate			0.07			CAL EPA
1120-71-4	Propane sultone, 1,3-			0.01			CAL EPA
123-38-6	Propionaldehyde		8			IRIS	
115-07-1	Propylene		3000			CAL EPA	
78-87-5	Propylene dichloride (1,2-Dichloropropane)		4			IRIS	
107-98-2	Propylene Glycol Monomethyl Ether		2000			IRIS	
75-56-9	Propylene oxide	3100	30	3	CAL EPA	IRIS	HRV
930-55-2	Pyrrolidine, 1-Nitroso-			0.02			IRIS
7782-49-2	Selenium		20			CAL EPA	
0-01-9	Selenium Compounds		20			CAL EPA	
7631-86-9	Silica (crystalline, respirable, PM4)		3			HBV	
1310-73-2	Sodium hydroxide	8			HRV		

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
7789-06-2	Strontium chromate		0.01	0		IRIS	HRV
100-42-5	Styrene	21000	1000		HRV	HRV	
14808-79-8	Sulfates	120			CAL EPA		
126-33-0	Sulfolane						
7664-93-9	Sulfuric acid (aerosol forms only)	120	1		CAL EPA	CAL EPA	
8014-95-7	Sulfuric Acid mixture w. sulfur trioxide (oleum)	120			CAL EPA		
7446-09-5	Sulfur dioxide	660			CAL EPA		
00-09-1	TCDD Equivalents, 2,3,7,8-		0	0		CAL EPA	MPCA
00-08-8	Tetrachlorodibenzodioxins, All Isomers		0	0		CAL EPA	MPCA
51207-31-9	Tetrachlorodibenzofuran, 2,3,7,8-		0	0		MPCA	MPCA
00-08-6	Tetrachlorodibenzofurans, All Isomers		0	0		MPCA	MPCA
1746-01-6	Tetrachlorodibenzo-p-dioxin, 2,3,7,8-		0	0		CAL EPA	MPCA
630-20-6	Tetrachloroethane, 1,1,1,2-			1.4			IRIS
79-34-5	Tetrachloroethane, 1,1,2,2-			0.17			IRIS
127-18-4	Tetrachloroethylene (Perchloroethylene)	20000	15	2	HRV	MDH	MDH
811-97-2	Tetrafluoroethane, 1,1,1,2-		80000			IRIS	
109-99-9	Tetrahydrofuran		2000			IRIS	
62-55-5	Thioacetamide			0.01			CAL EPA
108-88-3	Toluene	37000	400		HRV	HRV	
95-80-7	Toluene diamine, 2,4-			0.01			CAL EPA
584-84-9	Toluene diisocyanate, 2,4-	2	0.07	0.91	CAL EPA	CAL EPA	CAL EPA
91-08-7	Toluene-2,6-diisocyanate	2	0.07	0.91	CAL EPA	CAL EPA	CAL EPA
26471-62-5	Toluenediisocyanate (mixed isomers)		0.08	0.91		HRV	CAL EPA

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
8001-35-2	Toxaphene (chlorinated camphene)			0.03			IRIS
120-82-1	Trichlorobenzene, 1,2,4-		2			PPRTV	
79-00-5	Trichloroethane, 1,1,2-			0.63			IRIS
79-01-6	Trichloroethylene	2	2	2	HBV - Short-term	HBV	MDH
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-		5000			PPRTV	
75-69-4	Trichlorofluoromethane (CFC-11)						
88-06-2	Trichlorophenol, 2,4,6-			3.2			IRIS
96-18-4	Trichloropropane, 1,2,3-		0.3			IRIS	
96-19-5	Trichloropropene, 1,2,3-		0.3			PPRTV	
121-44-8	Triethylamine	2800	7		HRV	IRIS	
420-46-2	Trifluoroethane, 1,1,1-		20000			PPRTV	
526-73-8	Trimethylbenzene, 1,2,3-		60			IRIS	
95-63-6	Trimethylbenzene, 1,2,4-		60			IRIS	
1314-62-1	Vanadium Pentoxide, (V2O5)	30	0.01	0	HRV	PPRTV	PPRTV
108-05-4	Vinyl acetate		200			HRV	
593-60-2	Vinyl bromide		3			IRIS	
75-01-4	Vinyl chloride	180000	100	1	CAL EPA	IRIS	HRV
1330-20-7	Xylenes	43000	100		HRV	IRIS	
108-38-3	Xylenes, m-	43000	100		HRV	IRIS	
95-47-6	Xylenes, o-	43000	100		HRV	IRIS	
106-42-3	Xylenes, p-	43000	100		HRV	IRIS	
13530-65-9	Zinc chromate		0.01	0		IRIS	HRV
64-19-7	Acetic Acid	700	60				
64-18-6	Formic Acid	270					
50-21-5	Lactic Acid	850	70				

CAS	Chemical Name	Acute Air Concentration	Non-Cancer Chronic Air Concentration	Cancer Based Air Concentration	Acute Air Reference	Non-Cancer Chronic Air Reference	Cancer Based Air Reference
79-09-4	Propionic Acid	850	70				
71-36-3	Butanol	4300	360				
67-17-5	Ethanol	180000	15000				
121-51-3	Isoamyl	10200	860				
71-23-8	Propanol	14000	1200				
123-72-8	Butyraldehyde	2100	70				
98-01-1	Furfural	230	20				
128-38-6	Propionaldehyde	1300	110				

Toxicity Value References

Acronym	Source name	Web link
HBV or RAA	MDH Health Based Value or Risk Assessment Advice	www.health.state.mn.us/communities/environment/risk/guidance/air/table.html
HRV	MDH Health Risk Value	www.health.state.mn.us/communities/environment/risk/guidance/air/table.html
IRIS	USEPA Integrated Risk Information System	www.epa.gov/IRIS/
Cal EPA	California Environmental Protection Agency Office of Environmental Health Hazard	http://oehha.ca.gov/air/hot_spots/
PPRTV	EPA Provisional Peer Reviewed Toxicity Values for Superfund	http://hhpprtv.ornl.gov/