

RULES AND REGULATIONS

Gases and vapors—Substance	Parts per million parts of air by volume	Milligrams per cubic meter of air	Gases and vapors—Substance	Parts per million parts of air by volume	Milligrams per cubic meter of air
Cyclohexanone	100	400	Perchloroethylene (tetrachloroethylene)	200	1,350
Cyclohexene	400	1,350	Phenol	5	10
Cyclopropane	400	600	Phenylhydrazine	5	22
Decaborane	.05	.3	Phosgene (carbonyl chloride)	1	.4
Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone)	50	240	Phosphine	.05	.07
Diborane	.1	1	Phosphorus trichloride	.5	.3
n-Dichlorobenzene	50	300	Propyl acetate	200	840
Dichlorodifluoromethane	1,000	4,950	Propyl alcohol (isopropyl alcohol)	400	680
1,1-Dichloroethane	100	400	Propyl ether (isopropyl ether)	500	2,100
1,2-Dichloroethane (ethylene dichloride)	100	400	Propylene dichloride (1,2-dichloropropane)	75	360
1,2-Dichloroethylene	15	60	Propylene oxide	25	60
Dichloroethyl ether	1,000	4,950	Propylene sulfide	100	240
Dichloromonofluoromethane	10	60	Pyridine	10	30
1,1-Dichloro-1-nitroethane	1,000	7,000	Quinone	.1	.4
Dichlorotetrafluoroethane	25	75	Sbaine	.1	.5
Dimethylamine	100	800	Standard solvent	(N)	2,000
Difluorodibromomethane	50	200	Styrene monomer (phenylethylene)	100	420
Dibutyl ketone	50	200	Sulfur dioxide	5	13
Dimethylaniline (N-dimethylaniline)	5	25	Sulfur hexafluoride	1,000	6,000
Dimethylsulfate	1	5	Sulfur monochloride	1	.6
Dioxane (dichloroethane diolide)	100	360	Sulfur pentafluoride	.025	.25
Ethyl acetate	440	1,400	Tertiary butyl alcohol	100	310
Ethyl acrylate	25	100	p-Tertiarybutyltoluene	10	60
Ethyl alcohol (ethanol)	1,000	1,000	1,1,2,2-Tetrachloroethane	5	35
Ethylamine	25	43	Tetrahydrofuran	200	800
Ethylbenzene	200	870	Tetrahydrofuran	1	8
Ethyl bromide	200	880	Toluene (toluol)	200	770
Ethyl chloride	1,000	2,000	o-Toluidine	5	22
Ethyl ether	400	1,500	Trichloroethylene	200	1,050
Ethyl formate	100	300	Trichloroethylene	25	100
Ethyl silicate	100	850	Trifluoromonoethanolamine	1,000	6,100
Ethylene chlorohydrin	5	15	Turpentine	100	400
Ethylene diamine	10	30	Vinyl chloride (chloroethylene)	300	1,300
Ethylene dibromide (1,2-dibromoethane)	25	100	Vinyl toluene	100	450
Ethyleneimine	5	9	Xylene (xylo)	200	570
Ethylene oxide	50	90	Xylidine	5	25
Fluorine	.1	.2			
Fluorotrichloromethane	1,000	5,000			
Formaldehyde	5	10			
Furfural	5	20			
Gasoline	500	2,000			
Heptane (n-heptane)	500	2,000			
Hexane (n-hexane)	500	1,500			
Hexanone (methyl butyl ketone)	100	410			
Hexone (methyl isobutyl ketone)	100	410			
Hydrazine	1	1.3			
Hydrogen bromide	5	17			
Hydrogen chloride	5	7			
Hydrogen cyanide	10	11			
Hydrogen fluoride	5	2			
Hydrogen peroxide, 90%	1	1.4			
Hydrogen selenide	20	.2			
Hydrogen sulfide	20	.1			
Iodine	25	140			
Isophorone	5	12			
Isopropylamine	25	100			
Mesityl oxide	200	610			
Methyl acetate	1,000	1,650			
Methyl acrylate	10	35			
Methyl alcohol (methanol)	200	260			
Methyl bromide	20	80			
Methyl cellosolve (2-methoxyethanol)	25	80			
Methyl cellosolve acetate (ethylene glycol mono-methyl ether acetate)	25	120			
Methyl chloride	100	210			
Methylal (dimethoxymethane)	1,000	3,100			
Methyl chloroform (1,1,1-trichloroethane)	500	2,700			
Methylcyclohexane	500	2,000			
Methylcyclohexanol	100	470			
Methylcyclohexanone	100	460			
Methyl formate	100	260			
Methyl isobutyl carbinol (Methyl amyl alcohol)	25	100			
Methyl styrene	100	480			
Methylene chloride (dichloromethane)	200	1,750			
Nitromethyl aniline	2	0			
Naphthalene (or al tar)	200	800			
Naphthalene (petroleum)	200	2,000			
Nickel carbonyl	.001	.007			
Nitric acid	5	25			
p-Nitroaniline	1	5			
Nitrobenzene	1	5			
Nitroethane	100	310			
Nitrogen dioxide	5	5			
Nitrolyseria	100	250			
Nitropropane	50	150			
Nitrotoluene	5	30			
Octane	500	2,500			
Ozone	.1	.2			
Perdichlorobenzene	75	430			
Pentane	1,000	2,950			
Pentanone (methyl propyl ketone)	200	700			

TOXIC DUSTS, FUMES, AND MISTS—Con.

Substance
Milligrams per cubic meter of air

Magnesium oxide fume	15
Malathion (O,O-dimethyl dithiophosphate of diethyl mercaptosuccinate)	16
Manganese	6
Mercury	.1
Mercury (organic compounds)	.01
Methoxychlor (2,2-di-p-methoxyphenyl-1,1,1-trichloroethane)	15
Molybdenum: soluble compounds	5
insoluble compounds	15
Nicotine	.5
Parathion (O,O-diethyl O-p-nitrophenyl thiophosphate)	.1
Pentachloronaphthalene	.3
Pentachlorophenol	.5
Phosphorus (yellow)	.1
Phosphorus pentachloride	1
Phosphorus pentasulfide	1
Picric acid	.1
Pyrethrum	2
Rotenone	5
Selenium compounds (as Se)	.1
Sodium hydroxide	2
Sodium fluoracetate (1080)	.1
Strychnine	.15
Sulfuric acid	1
TEOP (tetraethyl dithionopyrophosphate)	.2
TEPP (tetraethyl pyrophosphate)	.05
Tellurium	.1
Tetral (2,4,5-trinitrophenylmethyl-nitramine)	1.5
Thiram (tetramethyl thiram disulfide)	5
Thallium (soluble compounds)	.1
Titanium dioxide	15
Trichloronaphthalene	5
Trinitrotoluene	1.5
Uranium: soluble compounds	.05
insoluble compounds	.25
Vanadium: V ₂ O ₅ dust	.5
V ₂ O ₅ fume	.1
Warfarin (3-[acetylbenzyl]-4-hydroxycoumarin)	.5
Zinc oxide fumes	15
Zirconium compounds (as Zr)	5

MINERAL DUSTS

Substance	Milligrams per cubic meter of air
Aluminum oxide	50
Asbestos	5
Dust (nuisance, no free silica)	50
Mica (below 5% free silica)	20
Portland cement	50
Silica: High (above 50% free SiO ₂)	5
Medium (5 to 50% free SiO ₂)	20
Low (below 5% free SiO ₂)	50
Silicon carbide	50
Soapstone (below 5% free SiO ₂)	20
Talc	20

VENTILATION

§ 50-204.288 General ventilation and temperature requirements.

(a) Outside air shall be provided to all workrooms at the rate of 15 cubic feet per minute per person, or one and one-half air changes per hour, whichever is greater. In most instances, leakage through walls, doors, and windows will produce at least one and one-half air changes per hour.

(b) A minimum air temperature of 60° F. should be maintained at all workrooms where work of a strenuous nature is performed, and a minimum air tem-