

TABLE 3. MAXIMUM ALLOWABLE CONCENTRATION OF GASES AND VAPORS

SUBSTANCE	ASA STANDARDS M.A.C. ppm ^b by volume	THRESHOLD LIMIT VALUES A.C.G.I.H.* 1957	
		ppm ^b	g/cu m or Oz/1000 cu ft
Acetaldehyde		200	0.360
Acetic acid		10	0.025
Acetic anhydride		5	0.020
Acetone		1000	2.400
Acrolein		0.5	0.0012
Acrylonitrile		20	0.045
Allyl alcohol		5	0.012
(x) Allyl chloride		5	0.015
Allyl propyl disulfide		2	0.012
Ammonia		100	0.070
Amyl acetate		200	1.050
Amyl alcohol (iso)		100	0.360
Aniline		5	0.019
Arsine		0.05	0.0002
Benzene (benzol)	100	25	0.080
Benzyl chloride		1	0.005
Bromine		1	0.007
Butadiene (1,3-butadiene)		1000	2.200
Butanone (methyl ethyl ketone)		250	0.740
Butyl acetate (n-butyl acetate)		200	0.950
Butyl alcohol (n-butanol)		100	0.300
Butylamine		5	0.015
Butyl cellosolve (2-butoxyethanol)		500	0.240
Carbon dioxide		5000	9.000
Carbon disulfide	20	20	0.060
Carbon monoxide	100	100	0.110
Carbon tetrachloride		25	0.160
Cellosolve (2-ethoxyethanol)		200	0.740
Cellosolve acetate (2-ethoxyethyl acetate)		100	0.540
Chlorine		1	0.003
Chlorine trifluoride		0.1	0.0004
Chlorobenzene (monochlorobenzene)		75	0.350
Chloroform (trichloromethane)		100	0.490
1-Chloro-1-nitropropane		20	0.100
(x) Chloropicrin		1	0.007
Chloroprene (2-chloro-1,3-butadiene)		25	0.090
Cresol (all isomers)		5	0.022
Cyclohexane		400	1.400
Cyclohexanol		100	0.410
Cyclohexanone		100	0.400
Cyclohexene		400	1.350
Cyclopropane		400	0.890
(x) Decaborane		0.05	0.0003
Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone)		50	0.240
Diborane		0.1	0.0001
o-Dichlorobenzene		50	0.300
Dichlorodifluoromethane		1000	4.95
1,1-Dichloroethane		100	0.400
1,2-Dichloroethane (ethylene dichloride)		100	0.400
1,2-Dichloroethylene		200	0.790
Dichloroethyl ether		15	0.090
Dichloromonofluoromethane		1000	4.200
1,1-Dichloro-1-nitroethane		10	0.060
Dichlorotetrafluoroethane		1000	7.00
Diethylamine		25	0.75
Difluorodibromomethane		100	0.860
Diisobutyl ketone		50	0.290
Dimethylaniline (N-dimethylaniline)		5	0.025
Dimethylsulfate		1	0.005
Dioxane (diethylene dioxide)		100	0.360

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(Continued)

SUBSTANCE	ASA STANDARDS M.A.C. ppm ^b by volume	THRESHOLD LIMIT VALUES A.C.G.I.H.* 1957	
		ppm ^b	g/cu m or Oz/1000 cu ft
Ethyl acetate		400	1.400
(x) Ethyl acrylate		25	0.100
Ethyl alcohol (ethanol)		1000	1.900
Ethylamine		25	0.045
Ethyl benzene		200	0.870
Ethyl bromide		200	0.890
Ethyl chloride		1000	2.600
Ethyl ether		400	1.200
Ethyl formate		100	0.300
Ethyl silicate		100	0.850
Ethylene chlorohydrin		5	0.016
Ethylenediamine		10	0.030
Ethylenedibromide (1,2-dibromoethane)		25	0.190
Ethylene imine		5	0.009
Ethylene oxide		50	0.090
Fluorine		0.1	0.0002
Fluorotrichloromethane		1000	5.800
Formaldehyde		5	0.096
(x) Furfural		5	0.020
Gasoline		500	2.000
Heptane (n-heptane)		500	2.000
Hexane (n-hexane)		500	1.80
Hexanone (methyl butyl ketone)		100	0.410
Hexone (methyl isobutyl ketone)		100	0.410
Hydrazine		1	0.0013
Hydrogen bromide		5	0.017
Hydrogen chloride		5	0.007
Hydrogen cyanide		10	0.011
Hydrogen fluoride		3	0.002
Hydrogen peroxide, 90%		1	0.0014
Hydrogen selenide		0.05	0.0002
Hydrogen sulfide		20	0.030
Iodine		1	0.01
Isophorone		25	0.140
Isopropylamine		5	0.012
Mesityl oxide		50	0.200
Methyl acetate		200	0.610
Methyl acetylene		1000	1.850
(x) Methyl acrylate		10	0.035
Methyl alcohol (methanol)		200	0.260
Methyl bromide		20	0.080
Methyl cellosolve (2-methoxyethanol)		25	0.080
Methyl cellosolve acetate (ethylene glycol mono-methyl ether acetate)		25	0.120
Methyl chloride		100	0.210
Methylal (dimethoxymethane)		1000	3.100
Methyl chloroform (1-1-1 trichloroethane)		500	2.700
Methylcyclohexane		500	2.000
Methylcyclohexanol		100	0.470
Methylcyclohexanone		100	0.460
Methyl formate		100	0.250
Methyl isobutyl carbinol (methylamyl alcohol)		25	0.100
Methylene chloride (dichloromethane)		500	1.750
Naphtha (coal tar)		200	0.800
Naphtha (petroleum)		500	2.000
(x) Nitric acid		0.001	0.000007
p-Nitroaniline		5	0.025
Nitrobenzene		1	0.006
		1	0.005