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.[a] 1956 ppm[b]	THRESHOLD LIMIT VALUES A.C.G.I.H.[a] 1956 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
(x) Allyl alcohol		5	0.012
(x) 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	35	0.110
(x) 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
(x) Butylamine		5	0.015
Butyl cellosolve (2-butoxyethanol)		200	0.970
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
(x) Chlorine trifluoride		0.1	0.0004
Chlorobenzene (monochlorobenzene)		75	0.350
Chloroform (trichloromethane)		100	0.490
1-Chloro-1-nitropropane		20	0.100
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	0.690
(x) Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone)		50	0.240
(x) Diborane		0.1	0.0001
o-Dichlorobenzene		50	0.300
Dichlorodifluoromethane		1000	4.95
1,1-Dichloroethane		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
(x) Difluorodibromomethane		100	0.860
(x) Diisobutyl ketone		50	0.290
Dimethylaniline (N-dimethylaniline)		5	0.025
Dimethylsulfate		1	0.005
Dioxane (diethylene dioxide)		100	0.360
Ethyl acetate		400	1.400
Ethyl alcohol (ethanol)		1000	1.900
Ethylamine		25	0.045

TABLE 3. MAXIMUM ALLOWABLE CONCENTRATION OF GASES AND VAPORS (Continued)

SUBSTANCE	ASA STANDARDS M.A.C. ppm[b] by volume	THRESHOLD LIMIT VALUES A.C.G.I.H.[a] 1956 ppm[b]	THRESHOLD LIMIT VALUES A.C.G.I.H.[a] 1956 g/cu m or Oz/1000 cu ft
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			
Ethylene chlorhydrin		100	0.850
(x) Ethylenediamine		5	0.016
(x) Ethylenedibromide (1,2-dibromoethane)		10	0.030
Ethylenedichloride (1,2-dichloroethane)		25	0.190
(x) Ethylene imine		100	0.400
Ethylene oxide		5	0.009
Fluorine		100	0.180
Fluorotrichloromethane		0.1	0.0002
Formaldehyde		1000	5.600
Gasoline	10	5	0.006
Heptane (*n*-heptane)		500	2.000
Hexane (*n*-hexane)		500	2.000
Hexanone (methyl butyl ketone)		500	1.80
Hexone (methyl isobutyl ketone)		100	0.410
(x) Hydrazine		100	0.410
(x) Hydrogen bromide		1	0.0013
Hydrogen chloride		5	0.017
Hydrogen cyanide		5	0.007
Hydrogen fluoride		10	0.011
(x) Hydrogen peroxide, 90%		3	0.002
Hydrogen selenide		1	0.0014
Hydrogen sulfide		0.05	0.0002
Iodine	20	20	0.030
Isophorone		1	0.01
(x) Isopropylamine		25	0.140
Mesityl oxide		5	0.012
Methyl acetate		50	0.200
(x) Methyl acetylene		200	0.610
Methyl alcohol (methanol)		1000	1.650
Methyl bromide	200	200	0.260
Methyl cellosolve (2-methoxyethanol)		20	0.080
Methyl cellosolve acetate (ethylene glycol monomethyl ether acetate)		25	0.080
Methyl chloride		25	0.120
Methyl chloroform (1-1-1 trichloroethane)	100	100	0.210
Methylal (dimethoxy methane)		500	2.700
Methylcyclohexane		1000	3.100
Methylcyclohexanol		500	2.000
Methylcyclohexanone		100	0.470
Methyl formate		100	0.460
(x) Methyl isobutyl carbinol (methylamyl alcohol)		100	0.250
Methylene chloride (dichloromethane)		25	0.100
Naphtha (coal tar)		500	1.750
Naphtha (petroleum)		200	0.800
Nickel carbonyl		500	2.000
(x) p-Nitroaniline		0.001	0.000007
Nitrobenzene		1	0.006
Nitroethane		1	0.005
Nitrogen dioxide		100	0.310
Nitroglycerine		5	0.009
Nitromethane		0.5	0.005
		100	0.250