



436 Threshold Limit Values (TLV) Immediately Dangerous to Life and Health (IDLH)

Matheson Tri-Gas assumes no responsibility for the accuracy of the information listed. As TLV and IDLH values change frequently, the current regulations from the following sources should be consulted for up-to-date accuracy.

Sources: TLV-TWA and TLV-STEL data extracted from 2001 Threshold Limit Values and Biological Exposure Indices, copyright 2001 by the American Conference of Governmental Industrial Hygienists.

Notes: All concentrations in parts per million. "C" indicates Ceiling Limit.

Substance	TLV TWA	TLV STEL
Acetaldehyde	25C	-
Acetic Acid	10	15
Acetone	500	750
Acetonitrile	40	60
Acrolein	0.1C	-
Acrylonitrile	2	-
Ammonia	25	35
Arsine	0.05	-
Benzene	0.5	2.5
Boron Trifluoride	1C	-
Bromine	0.1	0.2
1,3-Butadiene	2	-
Butane	800	-
n-Butyl Acetate	150	200
n-Butyl Acrylate	2	-
n-Butyl Alcohol	50C	-
Butyl Mercaptan	0.5	-
Carbon Dioxide	5,000	30,000
Carbon Disulfide	10	-
Carbon Monoxide	25	-
Carbon Tetrachloride	5	10
Chlorine	0.5	1
Chlorine Dioxide	0.1	0.3
Chlorobenzene	10	-
Chloroform	10	-
Chloropicrin	0.1	-
Cresol	5	-
Cyanogen	10	-
Cyanogen Chloride	0.3C	-
Cyclohexane	300	-
Cyclohexanol	50	-
Cyclohexanone	25	-
Diborane	0.1	-
Dichlorobenzene	10	-
1,1-Dichloroethane	100	-
Dimethylamine	5	15
Dioxane	20	-
Ethanolamine	3	6
Ethyl Acetate	400	-
Ethyl Acrylate	5	15
Ethyl Alcohol	1000	-
Ethylamine	5	15
Ethyl Benzene	100	125
Ethyl Chloride	100	-
Ethylene Dichloride	10	-
Ethylene Glycol	100 mg/m ³ C	-
Ethylene Oxide	1	-
Ethyl Ether	400	500
Ethyl Mercaptan	0.5	-

Substance	TLV TWA	TLV STEL
Fluorine	1	2
Formaldehyde	0.3C	-
Formic Acid	5	10
Furfural	2	-
Gasoline	300	500
Germane	0.2	-
Glutaraldehyde	0.05C	-
Heptane	400	500
Hexane	50	-
Hydrazine	0.01	-
Hydrogen Bromide	3C	-
Hydrogen Chloride	5C	-
Hydrogen Cyanide	4.7C	-
Hydrogen Fluoride	3C	-
Hydrogen Peroxide	1	-
Hydrogen Selenide	0.05	-
Hydrogen Sulfide	10	15
Iodine	0.1C	-
Isopropyl Alcohol	400	500
Methyl Alcohol	200	250
Methylamine	5	15
Methyl Bromide	1	-
Methyl Chloride	50	100
Methylene Chloride	50	-
Methyl Ethyl Ketone	200	300
Methyl Mercaptan	0.5	-
Methyl Methacrylate	50	100
Naphthalene	10	15
Nitric Acid	2	4
Nitric Oxide	25	-
Nitrobenzene	1	-
Nitrogen Dioxide	3	5
Nitrogen Trifluoride	10	-
Nitrous Oxide	50	-
Octane	300	-
Ozone	0.05	-
Pentane	600	750
Perchloroethylene	25	100
Phenol	5	-
Phosgene	0.1	-
Phosphine	0.3	1
Pyridine	5	-
Silane	5	-
Styrene	20	40
Sulfur Dioxide	2	5
Sulfur Hexafluoride	1000	-
Toluene	50	-
Toluene Diisocyanate	0.005	0.02
1,2,4-Trichlorobenzene	5C	-
1,1,2-Trichloroethane	10	-
Trichloroethylene	50	100
Triethylamine	1	3
Trimethylamine	5	15
Trimethylbenzene	25	-
Turpentine	100	-
Vinyl Acetate	10	15
Vinyl Bromide	0.5	-
Vinyl Chloride	1	-
Xylenes	100	150