

# Combustibles

Material	LEL (%/Vol)	UEL (%/Vol)	TLV/TWA (ppm)	IDLH (ppm)	Density (Air = 1.0)
Acetone	2.5	12.8	750	2,500	2.0
Acetylene	2.5	100.0	-A-	-A-	.9
Ammonia	15.0	28.0	25	300	0.6
Benzene	1.2	7.8	1.0	500	2.6
Butane	1.6	8.4	800	-U-	2.0
n-Butyl Acetate	1.7	7.6	150	1,700	4.0
Diborane	0.8	88.0	0.1	15	1.0
Ethane	3.0	12.5	-A-	-A-	1.0
Ethanol	3.3	19.0	1,000	-U-	1.6
Ethyl Acetate	2.0	11.5	400	2,000	3.0
Ethyl Ether	1.9	36.0	400	1,900	2.6
Ethylene Oxide	3.0	100.0	1	-C-	1.5
Gasoline (100 Octane)	1.4	7.6	300	-U-	3-4.0
Heptane	1.05	6.7	400	750	3.5
Hexane	1.1	7.5	50	1,100	3.0
Hydrogen	4.0	75.0	-A-	-A-	0.1
Isopropyl Alcohol	2.0	12.0	400	2,000	2.1
Methane	5.0	15.0	-A-	-A-	0.6
Methanol	6.0	36.0	200	6,000	1.1
Methyl Ethyl Ketone	1.4	11.4	200	3,000	2.5
Pentane	1.5	7.8	600	15,000	2.5
Propane	2.1	9.5	1,000	2,100	1.6
Propylene Oxide	2.3	36.0	20	400	2.0
Styrene	0.9	6.8	50	700	3.6
Toluene	1.1	7.1	50	500	3.1
Turpentine	0.8	?	100	800	4.7
Vinyl Acetate	2.6	13.4	10	-U-	3.0
Vinyl Chloride	3.6	33.0	1.0	-C-	2.2
Xylene	0.9	6.7	100	900	3.7

LEL	Lower Explosive Limit
UEL	Upper Explosive Limit
PPM	Parts Per Million
TLV/TWA	Threshold Limit Value/Time Weighted Average
IDLH	Immediately Dangerous to Life or Health
Density	< 1.0 = lighter than air > 1.0 = heavier than air
A	Asphyxiant
C	Carcinogen
U	Data Not Available



# Toxics

Material	TLV/TWA (ppm)	IDLH	LEL (ppm)	LEL (%Vol)	Density (Air=1)
Acetone	750	2,500	25,000	2.5	2.0
Ammonia	25	300	160,000	16.0	0.6
Benzene	1.0	-C-	12,000	1.2	2.6
Butane	800	-U-	16,000	1.6	2.0
n-Butyl Acetate	150	1,700	17,000	1.7	4.0
Carbon Dioxide	5,000	40,000	N/C	N/C	1.5
Carbon Monoxide	25	1,200	125,000	12.5	1.0
Chlorine	0.5	10	N/C	N/C	2.5
Ethylene Oxide	1	-C-	30,000	3.0	1.5
Ethyl Ether	400	19,000	19,000	1.9	2.6
Gasoline	300	-U-	14,000	1.4	3-4.0
Heptane	400	750	10,500	1.05	3.5
Hexane	50	1,100	11,000	1.0	3.0
Hydrogen Cyanide	10	50	56,000	5.6	0.9
Hydrogen Sulfide	10	100	40,000	4.0	1.2
Isopropyl Alcohol	400	2,000	20,000	2.0	2.1
Methyl Acetate	200	3,100	31,000	3.1	2.6
Methanol	200	6,000	60,000	6.0	1.1
Methyl Chloride	50	2,000	81,000	8.1	1.8
Methyl Ethyl Ketone	200	3,000	14,000	1.4	2.5
Methyl Methacrylate	100	1,000	17,000	1.7	3.5
Nitric Oxide	25	100	N/C	N/C	1.0
Nitrogen Dioxide	3	20	N/C	N/C	1.6
Pentane	600	15,000	15,000	1.5	2.5
n-Propyl Acetate	200	1,700	17,000	1.7	3.5
Styrene	50	700	9,000	.9	3.6
Sulfur Dioxide	2	100	N/C	N/C	2.2
1,1,1-Trichloroethane	350	700	75,000	7.5	4.6
Toluene	50	500	11,000	1.1	3.2
Trichloroethylene	50	1,000	80,000	8.0	4.5
Turpentine	100	800	8,000	0.8	4.7
Vinyl Chloride	1.0	-C-	36,000	3.6	2.2
Xylene	100	900	9,000	.9	3.7

LEL Lower Explosive Limit

PPM Parts Per Million

IDLH Immediately Dangerous to Life or Health

C Carcinogen

UEL Upper Explosive Limit

TLV/TWA Threshold Limit Value/Time Weighted Average

Density < 1.0 = lighter than air  
> 1.0 = heavier than air

N/C Not Combustible