

Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids Table

Extracted tables reprinted with permission from NFPA *Fire Protection Guide to Hazardous Materials, Thirteenth Edition****
(see pg 39). References to extinguishing methods and hazard identification can be found in the original material.

Chemical Name Formula (Synonym) CAS No.	NFPA 30/ OSHA Class	Flash Point °F(°C)	Ignition Temp. °F(°C)	Flammable Limits % by Vol.		Sp.Gr. (Water =1)	Vapor Density (Air=1)	Boiling Point °F(°C)	Water Soluble	Extinguishing Methods	Hazard Identification		
				Lower	Upper						Health	Flamma- bility	Insta- bility
Acetaldehyde CH ₃ CHO (Acetic Aldehyde) (Ethanal) 75-07-0	IA	-38 (-39)	347 (175)	4.0	60	0.8	1.5	70 (21)	Yes	1 5	2	4	2
<i>Note: Polymerizes. See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Acetone CH ₃ COCH ₃ (Dimethyl Ketone)- (2-Propanone) 67-64-1	IB	-4 (-20)	869 (465)	2.5	12.8	0.8	2.0	133 (56)	Yes	1 5	1	3	0
Acetonitrile CH ₃ CN (Methyl Cyanide) 75-05-8		42 (6) (oc)	975 (524)	3.0	16.0	0.8	1.4	179 (82)	Yes	1 5	2	3	0
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Acrolein CH ₂ :CHCHO (Acrylic Aldehyde) 107-02-8	IB	-15 (-26)	428 (220) Unstable	2.8	31	0.8	1.9	125 (52)	Yes	1 5	4	3	3
<i>Note: May polymerize explosively. See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Allylamine CH ₂ :CHCH ₂ NH ₂ (2-Propenylamine) 107-11-9	IB	-20 (-29)	705 (374)	2.2	22	0.8	2.0	128 (53)	Yes	1 5	4	3	1
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Amyl Acetate CH ₃ COOC ₅ H ₁₁ (1-Pentanol Acetate) Comm. 628-63-7	IB	60 (16) 70 (21)	680 (360)	1.1	7.5	0.9	4.5	300 (149)	Slight	1 5	1	3	0
Aniline C ₆ H ₅ NH ₂ (Aminobenzene) (Phenylamine) 62-53-3	IIIA	158 (70)	1139 (615)	1.3	11	1.0+	3.2	364 (184)	Slight	5	2	2	0
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Benzene C ₆ H ₆ (Benzol) 71-43-2	IB	12 (-11)	928 (498)	1.2	7.8	0.9	2.8	176 (80)	No	1	1	3	0
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Butadiene Monoxide CH ₂ :CHCHOCH ₂ (Vinylethylene Oxide) 930-22-3	IB	<-58 (<-50)				0.9	2.4	151 (66)		1		3	2
2-Butanone	<i>See Methyl Ethyl Ketone.</i>												
Butyl Alcohol CH ₃ (CH ₂) ₂ CH ₂ OH (1-Butanol) (Propyl Carbinol) (Propyl Methanol) 71-36-3	IC	98 (37)	650 (343)	1.4	11.2	0.8	2.6	243 (117)	No	1 5	2	3	0
Butyl Chloride C ₄ H ₉ Cl (1-Chlorobutane) 109-69-3	IB	15 (-9)	464 (240)	1.8	10.1	0.9	3.2	170 (77)	No	1	1	3	0
Carbon Disulfide CS ₂ (Carbon Bisulfide) 75-15-0	IB	-22 (-30)	194 (90)	1.3	50.0	1.3	2.6	115 (46)	No	4	3	4	0
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													