

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	Exting- uishing Methods	Hazard Identification		
				Lower	Upper						Health	Flamma- bility	Insta- bility
Methyl Isobutyl Ketone CH ₃ COCH ₂ CH(CH ₃) ₂ (Hexone) (4-Methyl-2-Pentanone) 108-10-1	IB	64 (18)	840 (448)	1.2 @ 200 (93)	8.0 @ 200 (93)	0.8	3.5	244 (118)	Slight	5 1	1	3	0
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Naphtha V.M. & P, Regular 8032-32-4	IB	28 (-2)	450 (232)	0.9	6.0	<1		212-320 (100-160)	No	1	1	3	0
<i>Note: Flash point and ignition temperature will vary depending on the manufacturer.</i>													
Nitroethane C ₂ H ₅ NO ₂ 79-24-3	IC	82 (28)	778 (414)	3.4		1.1	2.6	237(114)	Slight	4 5	2	3	3
<i>Note: May explode on heating. See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Paraldehyde (CH ₃ CHO) ₃ 123-63-7		96 (36) (oc)	460 (238)	1.3		1.0-	4.5	255 (124)	Slight	1 5	2	3	1
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Pentane CH ₃ (CH ₂) ₃ CH ₃ 109-66-0	IA	<40 (<40)	500 (260)	1.5	7.8	0.6	2.5	97 (36)	No	1	1	4	0
Petroleum Ether (Benzine) (Naphtha, Petroleum) 64475-85-0		<0 (<18)	550 (288)	1.1	5.9	0.6	2.5	95-140 (35-60)	No	1	1	4	0
Propionaldehyde CH ₃ CH ₂ CHO (Propanal) 123-38-6	IB	-22 (-30)	405 (207)	2.6	17	0.8	2.0	120 (49)	Slight	1 5	2	3	2
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Propylene Oxide OCH ₂ CHCH ₃ 75-56-9	IA	-35 (-37)	840 (449)	2.3	36	0.83	2.0	94 (35)	Yes	1 5	3	4	2
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Toluene C ₆ H ₅ CH ₃ (Methylbenzene) (Phenylmethane) (Toluol) 108-88-3	IB	40 (4)	896 (480)	1.1	7.1	0.9	3.1	231 (111)	No	1	2	3	0
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Toluol	<i>See Toluene.</i>												
Trichloroethylene ClHC:CCl ₂ 79-01-6		None	788 (420)	8 @ 25°C	10.5 @ 25°C	1.5	4.5	188 (87)	No		2	1	0
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Turpentine 9005-90-7	IC	95 (35)	488 (253)	0.8		<1		300 (149)	No	1	1	3	0
Vinyl Ethyl Ether CH ₂ :CHOC ₂ H ₅ (Ethyl Vinyl Ether) 109-92-2	IA	<50 (<46)	395 (202)	1.7	28	0.8	2.5	96 (36)	No	1 5	2	4	2
o-Xylene C ₆ H ₄ (CH ₃) ₂ (1,2-Dimethylbenzene) (o-Xylol) 95-47-6	IC	63 (17)	867 (463)	0.9	6.7	0.9	3.7	292 (144)	No	1	2	3	0
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													