

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
Gasoline C ₅ H ₁₂ to C ₁₀ H ₂₀ 56-60 Octane 73 Octane 92 Octane 100 Octane 8006-61-9	IB	-45 (-43) -45 (-43) -36 (-38)	536 (280) 853 (456)	1.4	7.6	0.8	3.0-4.0	100-400 (38-204)	No	1	1	3	0
<i>Note: Values may vary considerably for different grades of gasoline.</i>													
Heptane CH ₃ (CH ₂) ₅ CH ₃ 142-82-5	IB	25 (-4)	399 (204)	1.05	6.7	0.7	3.5	209 (98)	No	1	1	3	
1,4-Hexadiene CH ₃ CH:CHCH ₂ CH:CH ₂ (Allylpropenyl) 592-45-0	IB	-6 (-21)		2.0	6.1	0.7	2.8	151 (66)	No	1	1	3	0
Hexane CH ₃ (CH ₂) ₄ CH ₃ (Hexyl Hydride) 110-54-3	IB	-7 (-22)	437 (225)	1.1	7.5	0.7	3.0	156 (69)	No	1		3	0
Isopropyl Alcohol, 88% (CH ₃) ₂ CHOH (Isopropanol) (Dimethyl Carbinol) (2-Propanol) 67-63-0	IB	53 (12) 57 (14)	750 (399)	2.0	12.7 @ 200 (93)	0.8	2.1	181 (83)	Yes	5 1	1	3	0
Jet Fuels JP-4	IB	-10 to +30 (-23 to -1)	464 (240)	1.3	8.0	0.75-0.18		140-518 (60-270)	No	1	3	3	0
Kerosene	<i>See Fuel Oil No. 1.</i>												
Lubricating Oil, Turbine (Turbine Oil)		400 (204) (oc)	700 (371)			<1			No	2	0	1	0
Methanol	<i>See Methyl Alcohol.</i>												
Methyl Alcohol CH ₃ OH (Methanol) (Wood Alcohol) (Columbian Spirits) 67-56-1	IB	52 (11)	867 (464)	6.0	36	0.8	1.1	147 (64)	Yes	1 5	1	3	0
Methylcyclohexane CH ₂ (CH ₂) ₄ CHCH ₃ (Cyclohexylmethane) (Hexahydroxytoluene) 108-87-2	IB	25 (-4)	482 (250)	1.2	6.7	0.8	3.4	214 (101)	No	1	1	3	0
Methylene Chloride CH ₂ Cl ₂ (Dichloromethane) 75-09-2		None	1033 (556)	13	23	1.3	2.9	104 (40)	Slight		2	1	0
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Methyl Ethyl Ether CH ₃ OC ₂ H ₅ (Ethyl Methyl Ether) 540-67-0	IA	-35 (-37)	374 (190)	2.0	10.1	0.7	2.1	51 (11)	Yes	1 5	1	4	1
<i>See NFPA 49 contained in Fire Protection Guide to Hazardous Materials.</i>													
Methyl Ethyl Ketone C ₂ H ₅ COCH ₃ (2-Butanone) (Ethyl Methyl Ketone) 78-93-3	IB	16 (-9)	759 (404)	1.4 @ 200 (93)	11.4 @ 200 (93)	0.8	2.5	176 (80)	Yes	1 5	1	3	0