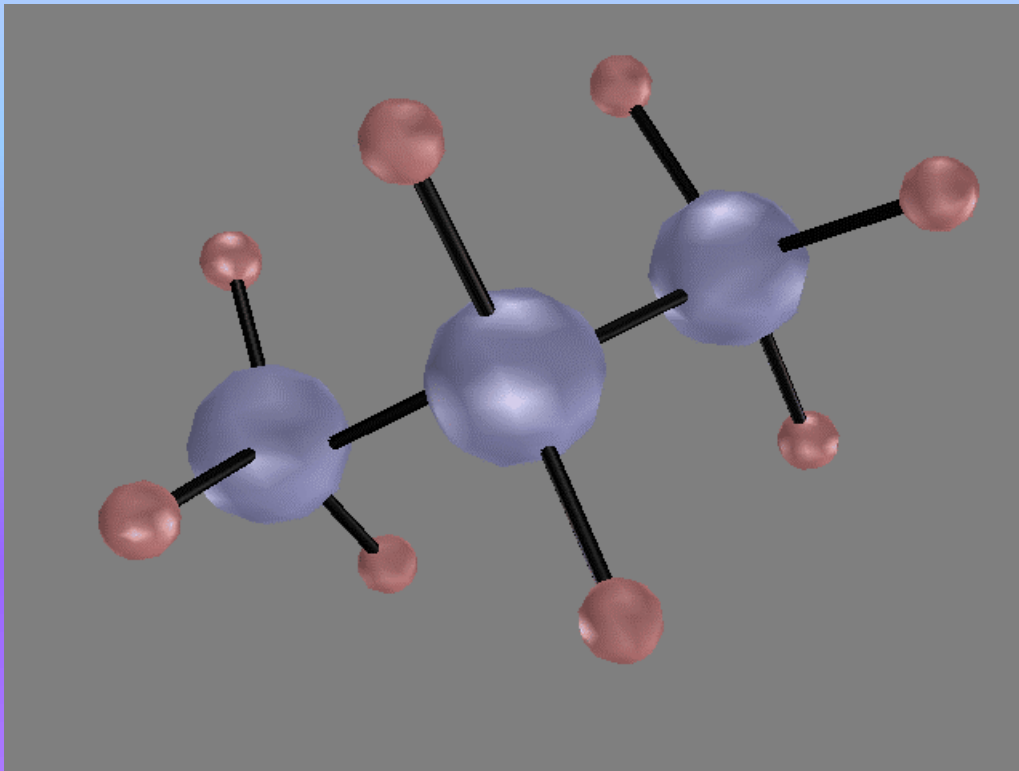


Chemical Properties of Propane



Propane (C₃H₈)

DESCRIPTION (Propane):

Propane is a colorless, flammable gas at atmospheric pressure and normal temperatures. It has a natural gas odor and is soluble in ether, alcohol and slightly soluble in water. Typical uses include vehicle fuel, home heating, and refrigerant gas.

PHYSICAL CONSTANTS (Propane):

Molecular Weight:	44.096	Latent Heat of Vaporization @ b.p.:	101.76 cal/g
Vapor Pressure @ 70° F.:	109 psig	Latent Heat of Fusion @ m.p.:	19.10 cal/g
Specific Volume @ 70° F., 1 atm.:	8.5 cu.ft/lb	Specific Heat, Gas @ 60° F., 1 atm. C _p :	0.3885 cal/(g)(°C)
Boiling Point @ 1.0 atm. :	--43.7 °F	Specific Heat, Gas @ 60° F., 1 atm. C _v :	0.3434 cal/(g)(°C)
Freezing Point @ 1 atm. :	-305.84 °F	Specific Heat Ratio, Gas @ 15° C., 1 atm., C _p /C _v :	1.131
Specific Gravity, Gas @ 60° F., 1 atm. (Air = 1):	1.5503	Solubility in Water @ 17.8° C., 1 atm. :	6.5 vol/100 vol H₂O
Density, Gas @ 0° C., 1 atm.:	1.97 g/l	Autoignition Temperature.:	874°F
Density, Liquid @ 20° C	0.5005 g/ml	Surface Tension @ -50 °C.:	16.49 dynes/cm
Critical Temperature:	206.2 °F	Viscosity, Gas @ 60°F., 1 atm.:	0.008029 centipoise
Critical Pressure:	617.4 psia	Heat of Combustion, Gas @ 60°F.:	2563.3 BTU/ft³
Critical Density:	0.220 g/ml		

Technical Information supplied by:

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