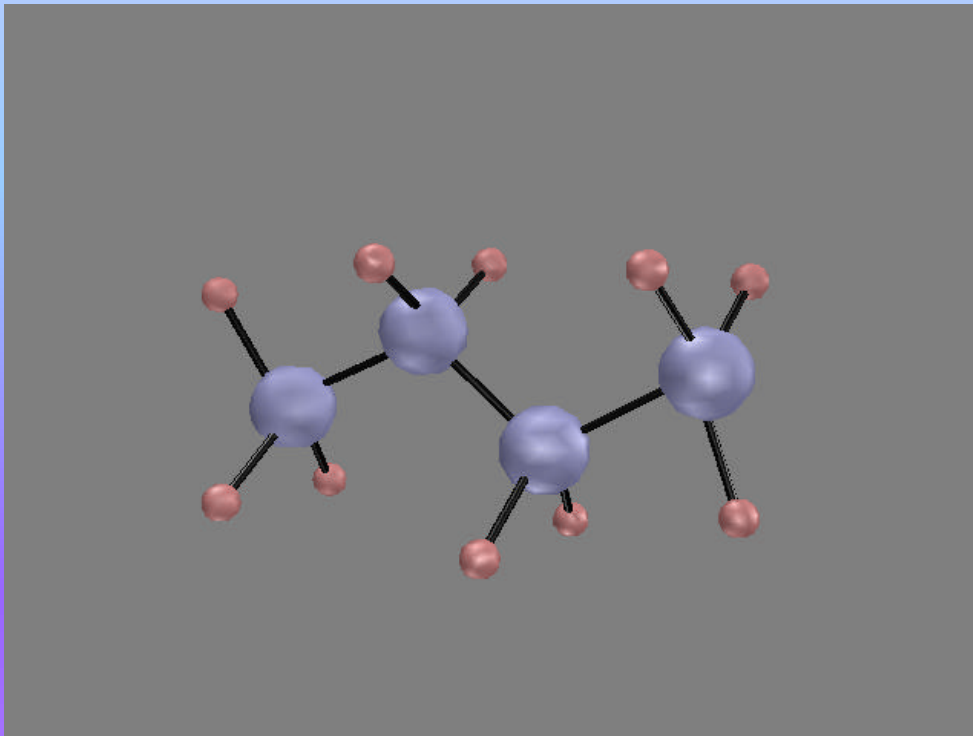


Chemical Properties of Butane



Butane C₄H₁₀

DESCRIPTION (Butane):

Butane is a colorless, flammable gas is also known as n-Butane. It is shipped as a liquefied gas under it's own vapor pressure of approximately 16.3 psig @ 70°F. Typically used in the manufacture of aviation fuels, organic chemicals, as a calibration gas for temperature and pressure gauges and as a heating fuel.

PHYSICAL CONSTANTS (Butane):

Molecular Weight:	58.124	Latent Heat of Fusion @ m.p.:	19.17 cal/g
Vapor Pressure @ 70° F.:	16.3 psig	Flammable Limits in Air:	1.9-8.5% by volume
Specific Volume @ 70° F., 1 atm.:	6.4 cu.ft/lb	Autoignition Temperature:	761°F
Boiling Point @ 1.0 atm. :	31.1°F	Gross Heat of Combustion @ 60° F., 1 atm.	3374.4 BTU/ft³
Freezing Point @ 1 atm. :	-217.0°F	Specific Heat, Liquid @ 60° F., 1 atm. C _p :	0.5636 BTU/(lb)(°F)
Specific Gravity, Gas @ 60° F., 1 atm. (Air = 1):	12.076	Specific Heat, Gas @ 60° F., 1 atm. C _p :	0.3908 cal/(g)(°C)
Density, Liquid @ 20°C.,	0.5788 g/ml	Specific Heat, Gas @ 60° F., 1 atm. C _v :	0.3566 cal/(g)(°C)
Saturation Pressure:		Specific Heat Ratio, Gas @ 60° F., 1 atm., C _p /C _v :	1.096
Critical Temperature:	305.6°F	Viscosity, Gas @ 14.7°C., 1 atm. :	0.0084 centipoise
Critical Pressure:	550.8 psia	Surface Tension @ -10°C., 1 atm. :	16.02 dynes/cm
Critical Density:	0.225 g/ml		
Latent Heat of Vaporization @ b.p.:	92.0 cal/g		

Technical Information
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