

Physical Properties for METHANE

Formula	CH ₄
Molecular Weight (lb/mol)	16.04
Critical Temp. (°F)	-116.2
Critical Pressure (psia)	673.0
Boiling Point (°F)	-258.7
Melting Point (°F)	-296.5
Psat @ 70°F (psia)	(note 1)
Liquid Density @ 70°F (lb/ft ³)	(note 1)
Gas Density @ 70°F 1 atm (lb/ft ³)	0.0416
Specific Volume @ 70°F 1 atm (ft ³ /lb)	24.06
Specific Gravity	0.565
Specific Heat @ 70°F (Btu/lbmol-°F)	8.53

Notes:

1 = Signifies at 70°F, the compound is above its critical temperature.

2 = Signifies that at 70°F, the compound is below the normal boiling point and only the equilibrium vapor is present at 1 atmosphere.

Physical Properties for HELIUM

Formula	He
Molecular Weight (lb/mol)	4.00
Critical Temp. (°F)	-450.3
Critical Pressure (psia)	33.0
Boiling Point (°F)	-452.1
Melting Point (°F)	--
Psat @ 70°F (psia)	(note 1)
Liquid Density @ 70°F (lb/ft ³)	(note 1)
Gas Density @ 70°F 1 atm (lb/ft ³)	0.0103
Specific Volume @ 70°F 1 atm (ft ³ /lb)	96.65
Specific Gravity	0.138
Specific Heat @ 70°F (Btu/lbmol-°F)	4.97

Notes:

1 = Signifies at 70°F, the compound is above its critical temperature.

2 = Signifies that at 70°F, the compound is below the normal boiling point and only the equilibrium vapor is present at 1 atmosphere.