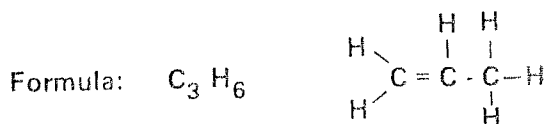


# Baugh-Mann Smith, Inc.

3930 Fuqua, Houston, Texas 77047

(713) 738-0023

## Chemical Safety Data Sheet



Purity ..... 99.6% spectrographic analysis available  
Molecular Weight ..... 42.078 liquid or gas  
Odor ..... characteristic Olefin plus odorizer  
Boiling Point ..... -47.7 C or -53.86 F @ 14.74 lbs/sq. in. Absolute  
Specific Gravity as a Gas ..... 1.476 @ 14.74 lbs/sq. in. Absolute expressed in B.T.U.'s/lb.  
Flammable Limits (% by Volume in Air Mixture):  
Lower Limit 2.0% as a gas  
Upper Limit 11.1% as a gas  
Flash Point ..... -108 C or -162 F as a liquid  
Ignition Temperature ..... 497 C or 927 F as a gas  
Critical Temperature ..... 91.8 C as a gas  
Critical Pressure ..... 667.2 lbs/sq. in. Absolute as a gas  
Corrosivity ..... Non-corrosive

Vapor Pressure:	lbs/sq. in. Gauge
-54 F	0
-50 F	1.5
0 F	33.2
30 F	67.05
70 F	136.9
100 F	212.5
115 F	259.3
130 F	312.8

### SAFETY

HPG is a colorless gas at normal temperature and pressure. HPG is non-toxic. Contact with the skin in a liquid state will cause freeze burn. Chief effect of high concentration is asphyxiation by the exclusion of oxygen. Some anesthetic properties are noticed. HPG produces little or no irritation to the eyes as a gas. HPG has a characteristic olefin odor that necessitates odorizer. Suggested maximum allowable concentration is 4,000 parts per million by volume for an eight hour work day. This concentration is one-fifth the lower explosive limit of HPG.

### SHIPPING CONTAINERS

Specifications for shipping containers are included within the following D.O.T. numbers: 173.306, 173.304, 173.314 and 173.315. They meet D.O.T. 4BW260 designation.

### HANDLING

The gross weight of the 65 lb. HPG cylinder is approximately 110 lbs. while the comparable 300 cu. ft. acetylene cylinder weighs approximately 235 lbs. Cylinder change-out frequency is reduced by an average factor of four to one when compared to acetylene. These two factors strongly support HPG as an improvement over acetylene in the area of cylinder handling.

For additional technical information on High Purity Gas, contact your local distributor or BMS Incorporated.

NEWSLETTER

High Purity Gas