

1-Propyne (Syn: Methyl Acetylene)

CAS # 74-99-7

Product # 8364.99

DESCRIPTION: 1-Propyne is a colorless, non-toxic flammable gas at room temperature and atmospheric pressure. It is shipped as a liquified gas under its own vapor pressure of 75 psia.

USES: Specialty gas mixtures, Organic synthesis and Instrument calibration

TYPICAL PHYSICAL & CHEMICAL PROPERTIES:

Purity Specification:	99% Min.
Refractive Index @ -40°C:	1.3863
Density, Liquid @ Saturation Pressure @ -23.2°C.	0.6711 kg/l ¹
Vapor Pressure @ 20°C	75.0 psia ²
Boiling Point @ 1 ATM:	-23.23° C ²
Melting Point @ 1 ATM:	-102.7° C ²
Viscosity, Gas @1 ATM:	0.00833 CP ¹
Odor:	Characteristic Acetylenic odor.

TYPICAL IMPURITIES:

Other C-3 and C-4 Hydrocarbons

* Standard product is uninhibited. Inhibitors can be added per customer request. BHT and Hydroquinone are standard inhibitors

TOXICITY: 1-Propyne is not considered a toxic gas, however its toxicological properties have not been fully investigated. It has some anesthetic properties, and probably acts as a simple asphyxiant. Due to its low atmospheric boiling point material is cryogenic hazard.

SHIPPING CLASS: UN3161 Liquified Gas, Flammable, (N.O.S.)

Cylinder Size	Volume (Kg)	CGA with diptube (liquid withdraw)	CGA without diptube (vapor withdraw)
Lecture Bottle	.250	n/a	CGA 180
5 lb	up to 2.2	CGA 510	CGA 555
11 lb	up to 5.0	CGA 510	CGA 555
20 lb	up to 9.0	CGA 510	CGA 555
60 lb	up to 27.0	CGA 510	CGA 555
100 lb	up to 45.0	CGA 510	CGA 555

The information contained herein is typical of this grade of product. We accept no responsibility for the results obtained by the application of this information or for the safety and suitability of this product in any particular use. Users are advised to make their own tests to determine the suitability of this product for their own purposes. No warrantee is expressed or implied and buyers assume all responsibility and liability for loss or damage arising from the use of this information or handling and use of this product.

¹ Matheson Gas Data Book, 1980

² webbook.nist.gov