



Technical Data Sheet

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:

Organic synthesis

TYPICAL PHYSICAL & CHEMICAL PROPERTIES:

Purity:	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.)

¹ Matheson Gas Data Book, 1980

² webbook.nist.gov

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