

1-Propyne, 95% (Syn: Methyl acetylene)

CAS #: 74-99-7

Product #: 315235

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 70.1 psia.

USES: Specialty gas mixtures, organic synthesis, instrument calibration, and welding gas

TYPICAL PHYSICAL & CHEMICAL PROPERTIES:

Attribute:	Typical Value
Purity:	95.0% Minimum
Molecular Formula:	C ₃ H ₄
Molecular Weight:	40.06
Density, Liquid @ Saturation Pressure @ -21.8°C.	0.6666 kg/l ¹
Vapor Pressure @ 20°C	70.1 psia ²
Boiling Point @ 1 ATM:	-21.8° C ²
Melting Point @ 1 ATM:	-102.7° C ²
Viscosity, Gas @1 ATM:	0.00726 cP ¹
Odor:	Sweet, irritating odor.

TYPICAL IMPURITIES:

Other C-3 and C-4 Hydrocarbons

1-Propyne contains 0.001% Hydroquinone and 0.01% Butylated hydroxytoluene as 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. 1-Propyne is not compatible with copper or alloys containing >65% copper. A Safety Data sheet is available upon request.

SHIPPING CLASS: UN3161 Liquified gas, flammable, n.o.s. (1-Propyne), 2.1

Cylinder Model/Size	Standard Package Size (kg)	CGA with diptube (liquid withdrawal)	CGA without diptube (vapor withdrawal)
Lecture Bottle	0.225	n/a	CGA 180
5 lb.	2.5	CGA 510	CGA 510
11 lb.	5.0	CGA 510	CGA 510
20 lb.	10.0	CGA 510	CGA 510
100 lb.	50.0	CGA 510	CGA 510
420 lb.	220.0	CGA 510	CGA 510

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Rev Date: 11-Jan-23