

Technical Data Sheet

1-Butyne (Syn: Ethyl Acetylene)

CAS # 107-00-6
Product # 464.48

DESCRIPTION:

Ethyl Acetylene is a clear colorless gas with a characteristic acetylenic odor. It is shipped as a liquefied gas under its own vapor pressure of 8.5 psig at 21.1°C.

USES: Specialty gas mixtures, Organic synthesis and Instrument calibration

TYPICAL PHYSICAL & CHEMICAL PROPERTIES:

Purity Specification 98% Min.
Vapor Pressure @ 21.1°C 159.9 kPa; 23.2 psia₁
Boiling Point @ 101.325 kPa 8.1°C₁
Viscosity Gas @ 20°C @ 101.325 kPa 0.00727 cp₁
Odor Characteristic acetylenic odor.

TYPICAL IMPURITIES:

1-Butene 0.25%
2-Butene, c&t 0.50%
1,2-Butadiene 0.75%

TOXICITY:

The toxicity of Ethyl Acetylene has not been thoroughly investigated. It probably has some anesthetic activity and can act as a simple asphyxiant.

SHIPPING CLASS: UN3161 Flammable Gas

Cylinder Size	Volume (Kg)	CGA with diptube (liquid withdraw)	CGA without diptube (vapor withdraw)
Lecture Bottle	0.250	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