

## 1-Butyne (Syn: Ethyl acetylene)

**CAS #:** 107-00-6

**Product #:** 315179

### 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 23.2 psia at 21.1°C.

**USES:** Specialty gas mixtures, Organic synthesis and Instrument calibration

### TYPICAL PHYSICAL & CHEMICAL PROPERTIES:

Attribute:	Typical Value
Purity:	99.0% Minimum
Molecular Formula:	C <sub>4</sub> H <sub>6</sub>
Molecular Weight:	54.09
Vapor Pressure @ 21.1°C:	23.2 psia <sup>1</sup>
Boiling Point @ 101.325 kPa:	8.1°C <sup>1</sup>
Viscosity Gas @ 20°C @ 101.325 kPa:	0.00727 cp <sup>1</sup>
Odor:	Characteristic acetylenic odor.

### TYPICAL IMPURITIES:

1-Butene; 2-Butene, c&t; 1,2-Butadiene

1-Butyne contains 0.001% Hydroquinone and 0.01% Butylated hydroxytoluene as stabilizers.

### TOXICITY:

The toxicity of Ethyl Acetylene has not been thoroughly investigated. It probably has some anesthetic activity and can act as a simple asphyxiant. A Safety Data Sheet is available upon request.

**SHIPPING CLASS:** UN2452, Ethylacetylene, stabilized, 2.1

Cylinder Model/Size	Standard Package Size (Kg)	CGA with diptube (liquid withdrawal)	CGA without diptube (vapor withdrawal)
Lecture Bottle	0.25	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	245.0	CGA 510	CGA 510

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<sup>1</sup> Matheson Gas Book, 1980

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