

Technical Data Sheet

2-Butyne (Syn: Dimethylacetylene)

CAS # 503-17-3

Product # 464.52

DESCRIPTION: 2-Butyne is a clear colorless liquid with a characteristic acetylenic odor.

USES: Specialty gas mixtures, Organic synthesis and Instrument

TYPICAL PHYSICAL & CHEMICAL PROPERTIES:

Purity Specification: 98% Min.

Vapor Pressure @ 20°C 600 mm

Heat of Vaporization 119.2 Cal/g

Boiling Point 26.95°C

Flash Point -56°F

Specific Gravity 0.6910₁

Melting Point -32.2°C₁

Refractive Index @ 20°C 1.3920₁

Odor Characteristic acetylenic odor.

TYPICAL IMPURITIES

1-Butene <0.25%

2-Butene, c&t <0.25%

1,2-Butadiene <0.25%

1-Butyne <1%

TOXICITY: The toxicity of 2-Butyne 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