



## **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	0.6910 <sup>1</sup>
Melting Point	-32.2°C <sup>1</sup>
Refractive Index @ 20°C	1.3920 <sup>1</sup>
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)
<b>Lecture Bottle</b>	<b>.250</b>	<b>n/a</b>	<b>CGA 180</b>
<b>5 lb</b>	<b>up to 2.2</b>	<b>CGA 510</b>	<b>CGA 555</b>
<b>11 lb</b>	<b>up to 5.0</b>	<b>CGA 510</b>	<b>CGA 555</b>
<b>20 lb</b>	<b>up to 9.0</b>	<b>CGA 510</b>	<b>CGA 555</b>
<b>60 lb</b>	<b>up to 27.0</b>	<b>CGA 510</b>	<b>CGA 555</b>
<b>100 lb</b>	<b>up to 45.0</b>	<b>CGA 510</b>	<b>CGA 555</b>

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<sup>1</sup> CRC Handbook of Chemistry & Physics