



## **1,2-Butadiene (Syn: Methylallene)**

CAS # 590-19-2

Product # 399.90

**DESCRIPTION:** 1,2-Butadiene is a colorless gas at atmospheric pressure and room temperature. It is easily liquified and is shipped under its own vapor pressure of 6.5 psig.

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

**TYPICAL PHYSICAL & CHEMICAL PROPERTIES:**

Purity Specification:	97% Min.
Specific Gravity:	0.6520
Vapor Pressure @ 21.1°C	21.25 psia <sup>1</sup>
Boiling Point:	10.8°C <sup>2</sup>
Odor:	Characteristic odor

**TYPICAL IMPURITIES:**

1,3-Butadiene	<0.1 %
Cis-2-Butene	<2.5 %
Acetylenes	<300 ppm
C4-Hydrocarbons (saturated)	<20 ppm
C5-Hydrocarbons	<3000 ppm
C3-Hydrocarbons	<10 ppm
C2-Hydrocarbons	<10 ppm
Carbonyl Compounds (as Acetaldehyde)	<30 ppm
Propadiene	<100 ppm
TBC = Tert Butyl Catechol	by request 100 ppm (Stabilizer)

**TOXICITY:** The toxicity of 1,2-Butadiene has not been thoroughly investigated. It probably has some anesthetic activity and can act as a simple asphyxiant.

**SHIPPING CLASS:** UN1010 Flammable

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

The information contained herein is typical of this grade of product. We accept no responsibility for the results obtained by the application of this information or for the safety and suitability of this product in any particular use. Users are advised to make their own tests to determine the suitability of this product for their own purposes. No warranty is expressed or implied and buyers assume all responsibility and liability for loss or damage arising from the use of this information or handling and use of this product.

<sup>1</sup> Physical Constants of the Principle Hydrocarbons, 1942

<sup>2</sup> Handbook of vapor pressures, Zwolinski and Wilhoit, 1971