

## 1,2-Propadiene (Syn: Allene)

**CAS #** 463-49-0  
**Product #** 315194

**DESCRIPTION:** Allene is a clear colorless gas with a characteristic diolefinic odor. It is shipped as a liquified gas under its own vapor pressure of 102 psig at 21.1°C.

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

### TYPICAL PHYSICAL & CHEMICAL PROPERTIES:

Purity:	98.0% minimum
Molecular Formula:	C <sub>3</sub> H <sub>4</sub>
Molecular Weight:	40.06
Liquid Density (1.013 bar at boiling point):	0.657.5 g/cm <sup>3</sup> <sup>1</sup>
Boiling Point @ 1.013 bar:	-34.4°C <sup>1</sup>
Odor:	Characteristic diolefinic order

### TYPICAL IMPURITIES:

Isobutane, n-butane, Propene, Propyne  
 Allene contains 0.001% Hydroquinone and 0.01% Butylated Hydroxytoluene (BHT) as stabilizers.

### TOXICITY:

The toxicity of Allene has not been fully investigated. It may have slight narcotic properties and act as a simple asphyxiant. Allene should always be handled with adequate ventilation. A safety data sheet (SDS) is available upon request.

**SHIPPING CLASS:** UN2200 Propadiene, stabilized, 2.1

**Safety Data Sheet (SDS):** A Safety Data Sheet is available upon request.

Cylinder Model/Size	Standard Package Size (Kg)	CGA with diptube (liquid withdrawal)	CGA without diptube (vapor withdrawal)
Lecture Bottle	0.2	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	200.0	CGA 510	CGA 510

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> Air Liquide, Gas Encyclopedia, <http://encyclopedia.airliquide.com/encyclopedia.asp> (11/5/13)

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