

Technical Data Sheet

1,2-Propadiene (Syn: Allene)

CAS # 463-49-0

Product # 16.00

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 Specification 95% Min.

Vapor Pressure @ 21.1°C 873.5 kPa; 116.7 psia₁

Boiling Point @ 101.325 kPa -34.5°C₁

Viscosity, Gas @ 101.325 kPa @ 0°C 0.007 6 cp₁

Odor Characteristic diolefinic odor.

TYPICAL IMPURITIES:

1-Propyne <5.0%

Allene contains 0.001% Hydroquinone and 0.01% 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.

SHIPPING CLASS: UN2200 Flammable Gas

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