



Acetylene

Description

Synonym: Ethyne, Ethine
Formula: C_2H_2

Gas Data

Molecular Weight: 26.04
Density: 1.09 kg/m³ @ 21.1°C, 101.325 kPa
0.0680 lb/ft³ @ 70°F, 14.696 psia
Specific Volume: 0.917 m³/kg @ 21.1°C, 101.325 kPa
14.7 ft³/lb @ 70°F, 14.696 psia

Safety Information

LFL in Air: 2.5%
UFL in Air: 100%
Property Statement: Forms explosive acetylides with copper, mercury or silver. Dissolved in acetone.

Shipping Information

CAS Registry Number: 74-86-2
UN Number: UN 1001
ECCN Number: EAR99
DOT Proper Shipping Name: Acetylene, Dissolved
DOT Classification: 2.1 (Flammable Gas)
DOT Label: FLAMMABLE GAS
TC Shipping Name: Acetylene, Dissolved
TC Classification: 2.1
TC Label: FLAMMABLE GAS

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure		Approximate Ship Weight	
		psig @ 70°F	kPa @ 21.1°C	lb	kg
1B	510	250	1,724	210	95
2B	510	250	1,724	42	19

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Content Metric	Equipment Recommendations	Model No.
Acetylene, Purified 99.6% <i>Guaranteed Specifications</i> PH ₃ < 15 ppm	G1301202	1B*	330 ft ³	9.34 m ³	Single Stage Reg. Flash Arrestor Detector Tube	Series 18A-510 6103A-F* 8014-101S
	G1301241	2B*	40 ft ³	1.13 m ³		
<i>A Certificate of Conformance will be provided on request.</i>						
<i>*Contents may vary slightly due to porosity of filler material.</i>						
<i>Do Not Discharge This Gas At Pressures Exceeding 15 psig (104 kPa)</i>						
Acetylene, CP Grade 98%	G1301002	1B*	330 ft ³	9.34 m ³	Single Stage Reg. Flash Arrestor Detector Tube	Series 18A-510 6103A-F* 8014-101S
<i>A Certificate of Conformance will be provided on request.</i>						
<i>*Contents may vary slightly due to porosity of filler material.</i>						
<i>Do Not Discharge This Gas At Pressures Exceeding 15 psig (104 kPa)</i>						