

# Acetylene

## Description

Synonym: Ethyne, Ethine  
Formula:  $C_2H_2$

## Gas Data

Molecular Weight: 26.04  
Density: 1.09 kg/m<sup>3</sup> @ 21.1°C, 101.325 kPa  
0.0680 lb/ft<sup>3</sup> @ 70°F, 14.696 psia  
Specific Volume: 0.917 m<sup>3</sup>/kg @ 21.1°C, 101.325 kPa  
14.7 ft<sup>3</sup>/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

## Industrial Gases

Cylinder Size	Nominal Contents		Valve Outlet CGA No.
	US	Metric	
AC LG	310 FT <sup>3</sup>	8.77 M <sup>3</sup>	510
AC MED	250 FT <sup>3</sup>	7.08 M <sup>3</sup>	510
AC SM	140 FT <sup>3</sup>	3.96 M <sup>3</sup>	510
AC 75	75 FT <sup>3</sup>	2.12 M <sup>3</sup>	510
B	40 FT <sup>3</sup>	1.13 M <sup>3</sup>	520
MC	10 FT <sup>3</sup>	0.28 M <sup>3</sup>	200

*Our packaging of acetylene gas includes a complete range of cylinder sizes, 10 cylinder cradles, and bulk trailers. We can handle virtually any size requirement, for customers using 1 or 2 cylinders per year, to customers using millions of cubic feet of product monthly.*

