

PURE GASES

ACETYLENE C₂H₂

General Characteristics: A colorless, flammable gas with an odor similar to garlic. Shipped and stored in dissolved acetone. Can decompose spontaneously if pressure exceeds 15 psig.

Health Hazards: A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
INSTRUMENTAL Min. Purity 99.8% PH ₃ < 15 ppm, Totals < 10 ppm	60 LP 40 LP 6 LP	9.4 m ³ 6.2 m ³ 1.1 m ³	Single-stage high purity regulator, refer to page 140 Flash back arrestor, refer to page 155

TECHNICAL INFORMATION

Molecular Weight	26.038	UN No.....	UN1001
Specific Volume	14.7CF/lb	Dot Class.....	2.1
Fire Potential	2.5 - 80% in Air	Dot Label.....	Flammable Gas
CGA Valve	510	Cas Registry	74-86-2
LB	N.A.	Cylinder Pressure @ 70°F	250 psig
Dot Name.....	Acetylene, Dissolved		

* Contents and pressure may vary slightly.

AIR

General Characteristics: A colorless, non-flammable and odorless gas.

Health Hazards: Non-hazardous at atmospheric pressure.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
V.O.C. FREE THC < 0.01 ppm, CO < 0.1 ppm, CO ₂ < 0.3 ppm, H ₂ O < 2.0 ppm, O ₂ Content = 20 to 21%	A030 A016 A007	4.2 m ³ 2.2 m ³ 0.8 m ³	Double-stage high purity regulator, refer to page 134 High purity lecture bottle regulator, refer to page 146
ULTRA-ZERO AMBIENT MONITORING ZERO THC < 0.05 ppm, CO < 0.1 ppm, H ₂ O < 5 ppm, CO ₂ = 315-385 ppm, NO _x < 0.02 ppm, SO ₂ < 0.005 ppm, SF ₆ < 0.001 ppm O ₂ Content = 20 to 21% * available of without CO ₂ on request	A030 A016 A007	4.2 m ³ 2.2 m ³ 0.8 m ³	
CEM ZERO THC < 0.1 ppm, CO < 0.5 ppm, CO ₂ < 1 ppm, H ₂ O < 5.0 ppm, O ₂ Content = 20 to 21%	049 044 016	7.1 m ³ 6.4 m ³ 2.3 m ³	
SYNTHETIC CO < 1 ppm, CO ₂ < 2 ppm, H ₂ O < 5 ppm O ₂ Content = 20 to 21%	049 044 016 010	7.1 m ³ 6.4 m ³ 2.3 m ³ 1.5 m ³	

TECHNICAL INFORMATION

Molecular Weight	28.96	Dot Name.....	Air, Compressed
Specific Volume	13.3CF/lb	UN No.....	UN1002
Fire Potential	Non-flammable	Dot Class.....	2.2
CGA Valve.....	590	Dot Label.....	Non-flammable Gas
LB	180	Cas Registry	25635-88-5