

# PURE GASES

## ACETYLENE C<sub>2</sub>H<sub>2</sub>

**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
<b>INSTRUMENTAL</b> Min. Purity 99.8% PH <sub>3</sub> < 15 ppm, Totals < 10 ppm	60 LP 40 LP 6 LP	9.4 m <sup>3</sup> 6.2 m <sup>3</sup> 1.1 m <sup>3</sup>	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
<b>V.O.C. FREE</b> THC < 0.01 ppm, CO < 0.1 ppm, CO <sub>2</sub> < 0.3 ppm, H <sub>2</sub> O < 2.0 ppm, O <sub>2</sub> Content = 20 to 21%	A030 A016 A007	4.2 m <sup>3</sup> 2.2 m <sup>3</sup> 0.8 m <sup>3</sup>	Double-stage high purity regulator, refer to page 134  High purity lecture bottle regulator, refer to page 146
<b>ULTRA-ZERO AMBIENT MONITORING ZERO</b> THC < 0.05 ppm, CO < 0.1 ppm, H <sub>2</sub> O < 5 ppm, CO <sub>2</sub> = 315-385 ppm, NO <sub>x</sub> < 0.02 ppm, SO <sub>2</sub> < 0.005 ppm, SF <sub>6</sub> < 0.001 ppm O <sub>2</sub> Content = 20 to 21% * available of without CO <sub>2</sub> on request	A030 A016 A007	4.2 m <sup>3</sup> 2.2 m <sup>3</sup> 0.8 m <sup>3</sup>	
<b>CEM ZERO</b> THC < 0.1 ppm, CO < 0.5 ppm, CO <sub>2</sub> < 1 ppm, H <sub>2</sub> O < 5.0 ppm, O <sub>2</sub> Content = 20 to 21%	049 044 016	7.1 m <sup>3</sup> 6.4 m <sup>3</sup> 2.3 m <sup>3</sup>	
<b>SYNTHETIC</b> CO < 1 ppm, CO <sub>2</sub> < 2 ppm, H <sub>2</sub> O < 5 ppm O <sub>2</sub> Content = 20 to 21%	049 044 016 010	7.1 m <sup>3</sup> 6.4 m <sup>3</sup> 2.3 m <sup>3</sup> 1.5 m <sup>3</sup>	

### 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