

# PURE GASES

## METHANE CH<sub>4</sub>

**General Characteristics:** A colorless, odorless and flammable gas.

**Health Hazards:** A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>RESEARCH</b> Min. Purity 99.995% Air < 20 ppm, C <sub>2</sub> H <sub>4</sub> < 1 ppm, CO < 1 ppm, H <sub>2</sub> O < 5 ppm, CO <sub>2</sub> < 1 ppm, C <sub>2</sub> H <sub>6</sub> < 20 ppm	049	8.5 m <sup>3</sup>	Double-stage high purity regulator, refer to page 134  High purity lecture bottle regulator, refer to page 146
	044	7.7 m <sup>3</sup>	
	016	2.8 m <sup>3</sup>	
	010	1.7 m <sup>3</sup>	
	LB	57 L	
<b>ULTRA HIGH PURITY</b> Min. Purity 99.99%	049	8.5 m <sup>3</sup>	
	044	7.7 m <sup>3</sup>	
	016	2.8 m <sup>3</sup>	
	010	1.7 m <sup>3</sup>	
	LB	57 L	
<b>C.P.</b> Min. Purity 99.0%	049	8.5 m <sup>3</sup>	
	044	7.7 m <sup>3</sup>	
	016	2.8 m <sup>3</sup>	
	010	1.7 m <sup>3</sup>	
	LB	57 L	

### TECHNICAL INFORMATION

Molecular Weight.....	16.04	Dot Name.....	Methane, Compressed
Specific Volume.....	23.80CF/lb	UN No.....	UN1971
Fire Potential.....	5.0 - 15.4% in Air	Dot Class.....	2.1
TLV-TWA.....	None established	Dot Label.....	Flammable Gas
CGA Valve.....	350	Cas Registry.....	74-82-8
LB.....	180		

## METHYL BROMIDE CH<sub>3</sub>Br

**General Characteristics:** A colorless, poisonous, odorless and liquefied gas.

**Health Hazards:** Toxic. Attacks the central nervous system and may result in dizziness, nausea and headaches. Contact with skin causes burns.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>C.P.</b> Min. Purity 99.5%	010	10.0 kg	Single-stage high purity regulator, refer to page 140
	002	2.0 kg	
	LB	454 g	High purity lecture bottle regulator, refer to page 146

### TECHNICAL INFORMATION

Molecular Weight.....	94.94	Dot Name.....	Methyl Bromide
Specific Volume.....	4.1CF/lb	UN No.....	UN1062
Fire Potential.....	10 - 16% in Air	Dot Class.....	2.3
TLV-TWA.....	5 ppm (ACGIH 1991-1992)	Dot Label.....	Poison Gas, Flammable Gas
CGA Valve.....	330	Cas Registry.....	74-83-9
LB.....	180	Cylinder Pressure @ 70°F.....	13 psig