

# PURE GASES

## ISOBUTYLENE i-C<sub>4</sub>H<sub>8</sub>

**General Characteristics:** A colorless, flammable and liquefied gas with a detectable odor.

**Health Hazards:** A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>RESEARCH</b> Min. Purity 99.9% (Liquid Phase)	18 LP LB	7.7 kg 170 g	Single-stage high purity regulator, refer to page 140
<b>C.P.</b> Min. Purity 99.0% (Liquid Phase)	110 LP 18 LP 010 LB	57.2 kg 7.7 kg 3.5 kg 170 g	High purity lecture bottle regulator, refer to page 146

### TECHNICAL INFORMATION

Molecular Weight.....	56.11	Dot Name.....	Isobutylene
Specific Volume.....	6.7CF/lb	UN No.....	UN1055
Fire Potential.....	1.8 - 9.6% in Air	Dot Class.....	2.1
TLV-TWA.....	None established	Dot Label.....	Flammable Gas
CGA Valve.....	510	Cas Registry.....	115-11-7
LB.....	180	Cylinder Pressure @ 70°F.....	24.3 psig

## KRYPTON Kr

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

**Health Hazards:** A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	NET WT.	EQUIPMENT RECOMMENDATIONS
<b>RESEARCH</b> Min. Purity 99.999% Ar < 2 ppm, CO <sub>2</sub> < 0.5 ppm, CF <sub>4</sub> < 0.5 ppm, H <sub>2</sub> < 0.5 ppm CH <sub>4</sub> < 0.5 ppm, N <sub>2</sub> < 2 ppm O <sub>2</sub> < 0.5 ppm, H <sub>2</sub> O < 0.5 ppm, Xe < 2 ppm	049 044 016 010 LB	10.0 m <sup>3</sup> 8.0 m <sup>3</sup> 2.0 m <sup>3</sup> 500 L 50 L	34.7 kg 27.4 kg 6.8 kg 1.7 kg 171 g	Stainless-steel high purity double-stage regulator, refer to page 135  Stainless-steel lecture bottle regulator, refer to page 147
<b>ULTRA HIGH PURITY</b> Min. Purity 99.995% Ar < 2 ppm, CO <sub>2</sub> < 1 ppm, CF <sub>4</sub> < 1 ppm, H <sub>2</sub> < 2 ppm CH <sub>4</sub> < 1 ppm, N <sub>2</sub> < 5 ppm O <sub>2</sub> < 1 ppm, H <sub>2</sub> O < 1 ppm, Xe < 25 ppm	049 044 016 008 LB	10.0 m <sup>3</sup> 8.0 m <sup>3</sup> 2.0 m <sup>3</sup> 500 L 50 L	34.7 kg 27.4 kg 6.8 kg 1.7 kg 171 g	

### TECHNICAL INFORMATION

Molecular Weight.....	83.80	Dot Name.....	Krypton, Compressed
Specific Volume.....	4.6CF/lb	UN No.....	UN1056
Fire Potential.....	Non-flammable	Dot Class.....	2.2
TLV-TWA.....	None established	Dot Label.....	Non-flammable Gas
CGA Valve.....	580	Cas Registry.....	7439-90-0
LB.....	180		