

# PURE GASES

## PROPYLENE C<sub>3</sub>H<sub>6</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 99.95% (Liquid Phase) N <sub>2</sub> < 20 ppm, CH <sub>4</sub> < 5 ppm, C <sub>2</sub> H <sub>6</sub> < 50 ppm, C <sub>3</sub> H <sub>8</sub> < 200 ppm, C <sub>4</sub> H <sub>10</sub> < 5 ppm, C <sub>4</sub> H <sub>8</sub> < 5 ppm, C <sub>4</sub> H <sub>6</sub> < 5 ppm	18 LP	9.1 kg	Single-stage high purity regulator, refer to page 140  High purity lecture bottle regulator, refer to page 146
	016	4.5 kg	
	LB	170 g	
<b>POLYMER</b> Min. Purity 99.5% (Liquid Phase)	110 LP	47.7 kg	
	18 LP	9.1 kg	
<b>C.P.</b> Min. Purity 99.0% (Liquid Phase)	110 LP	47.7 kg	
	18 LP	9.1 kg	

### TECHNICAL INFORMATION

Molecular Weight.....	42.08	Dot Name.....	Propylene
Specific Volume.....	9.1CF/lb	UN No.....	UN1075
Fire Potential.....	2.4 - 11% in Air	Dot Class.....	2.1
TLV-TWA.....	None established	Dot Label.....	Flammable Gas
CGA Valve.....	510	Cas Registry.....	115-07-1
LB.....	180	Cylinder Pressure @ 70°F.....	136 psig

## SILANE SiH<sub>4</sub>

- See Electronic Gas Section page 104 -

## SILICON TETRAFLUORIDE SiF<sub>4</sub>

- See Electronic Gas Section page 107 -

## SULFUR DIOXIDE SO<sub>2</sub>

**General Characteristics:** A colorless, non-flammable and liquefied gas with a penetrating odor.

**Health Hazards:** Toxic. Irritates eyes and air passages.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>ANHYDROUS</b> Min. Purity 99.98% (Liquid Phase)	049	50 kg	Stainless-steel high purity single-stage regulator, refer to page 142
	40 LP	40 kg	
	016	18.1 kg	Stainless-steel lecture bottle regulator, refer to page 147
	LB	454 g	

### TECHNICAL INFORMATION

Molecular Weight.....	64.06	Dot Name.....	Sulfur Dioxide, Liquefied
Specific Volume.....	5.9CF/lb	UN No.....	UN1079
Fire Potential.....	Non-flammable	Dot Class.....	2.3
TLV-TWA.....	2 ppm (ACGIH 1991-1992)	Dot Label.....	Poison Gas
CGA Valve.....	660	Cas Registry.....	7446-09-5
LB.....	180	Cylinder Pressure @ 70°F.....	34 psig