

PURE GASES

PROPYLENE C₃H₆

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
RESEARCH Min. Purity 99.95% (Liquid Phase) N ₂ < 20 ppm, CH ₄ < 5 ppm, C ₂ H ₆ < 50 ppm, C ₃ H ₈ < 200 ppm, C ₄ H ₁₀ < 5 ppm, C ₄ H ₈ < 5 ppm, C ₄ H ₆ < 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	
POLYMER Min. Purity 99.5% (Liquid Phase)	110 LP	47.7 kg	
	18 LP	9.1 kg	
C.P. 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 SiH₄

- See Electronic Gas Section page 104 -

SILICON TETRAFLUORIDE SiF₄

- See Electronic Gas Section page 107 -

SULFUR DIOXIDE SO₂

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
ANHYDROUS 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