

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 GRADE 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 ₆ < 5 ppm, C ₂ H ₂ < 5 ppm	LP26 LB	8 lbs 0.375 lb	Single-stage high purity regulator, refer to page 142 High purity lecture bottle regulator, refer to page 148
POLYMER GRADE Min. Purity 99.5% (Liquid Phase)	LP239 LP48 LB	105 lbs 20 lbs 0.375 lb	
C.P. GRADE Min. Purity 99.0% (Liquid Phase)	LP239 LP48 LB	105 lbs 20 lbs 0.375 lb	

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 Gases Section –

SILICON TETRAFLUORIDE SiF₄

– See Electronic Gases Section –

SULFUR DIOXIDE SO₂

General Characteristics: A colorless, nonflammable, 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)	*LP124 008 LB	150 lbs 15 lbs 1 lb	Stainless-steel high purity single-stage regulator, refer to page 144 Stainless-steel lecture bottle regulator, refer to page 149

TECHNICAL INFORMATION

Molecular Weight	64.06	Dot Name	Sulfur Dioxide, Liquefied
Specific Volume	5.9CF/lb	UN No.	UN1079
Fire Potential	Nonflammable	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

*Size LP124 (Low Pressure Cylinder) = 10" (o.d.) x 53" (h)