

PURE GASES

PHOSGENE COCl₂

General Characteristics: A colorless, nonflammable, and liquefied gas with an odor similar to moist hay.
Health Hazards: Highly toxic. Causes serious lung damage with delayed effect even with concentrations below the odor threshold.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
C.P. GRADE Min. Purity 99.0% (Liquid Phase)	008 E01	10 lbs 0.5 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	98.92	Dot Name	Phosgene
Specific Volume	3.9CF/lb	UN No.	UN1076
Fire Potential	Nonflammable	Dot Class	2.3
TLV-TWA	0.1 ppm (ACGIH 1991-1992)	Dot Label	Poison Gas
CGA Valve	660	Cas Registry	75-44-5
LB	N/A	Cylinder Pressure @ 70°F	10.7 psig

PHOSPHINE PH₃

– See Electronic Gases Section –

PROPANE C₃H₈

General Characteristics: A colorless, flammable, liquefied and odorless gas.
Health Hazards: A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
RESEARCH GRADE Min. Purity 99.99% (Liquid Phase) O ₂ < 2 ppm, N ₂ < 10 ppm, H ₂ O < 1 ppm, CO ₂ < 2 ppm, Other HC < 50 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
INSTRUMENTAL GRADE Min. Purity 99.5% (Liquid Phase)	LP239 LP48 LP26 LB	100 lbs 20 lbs 8 lbs 0.375 lb	
C.P. GRADE Min. Purity 99.0% (Liquid Phase)	LP239 LP48 LB	100 lbs 20 lbs 0.375 lb	
NATURAL GRADE Min. Purity 96.0% (Liquid Phase)	LP239 LP48	100 lbs 20 lbs	

** Available with full length dip tube on request.

TECHNICAL INFORMATION

Molecular Weight	44.11	Dot Name	Propane
Specific Volume	8.5CF/lb	UN No.	UN1978
Fire Potential	2.1 - 9.5% in Air	Dot Class	2.1
TLV-TWA	None established	Dot Label	Flammable Gas
CGA Valve	510	Cas Registry	74-98-6
LB	180	Cylinder Pressure @ 70°F	109 psig