

# PURE GASES

## PHOSGENE COCl<sub>2</sub>

**General Characteristics:** A colorless, non-flammable 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
<b>C.P.</b> Min. Purity 99.0% (Liquid Phase)	002	1.0 kg	Stainless-steel high purity single-stage regulator, refer to page 142

### TECHNICAL INFORMATION

Molecular Weight.....	98.92	Dot Name.....	Phosgene
Specific Volume.....	3.9CF/lb	UN No.....	UN1076
Fire Potential.....	Non-flammable	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 PH<sub>3</sub>

- See Electronic Gas Section page 101 -

## PROPANE C<sub>3</sub>H<sub>8</sub>

**General Characteristics:** A colorless, flammable, liquefied and odorless gas.

**Health Hazards:** A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>RESEARCH</b> Min. Purity 99.99% (Liquid Phase) O <sub>2</sub> < 2 ppm, N <sub>2</sub> < 10 ppm, H <sub>2</sub> O < 1 ppm, CO <sub>2</sub> < 2 ppm, Other HC < 50 ppm	110 LP 18 LP LB	45.4 kg 9.1 kg 170 g	Single-stage high purity regulator, refer to page 140  High purity lecture bottle regulator, refer to page 146
<b>INSTRUMENTAL</b> Min. Purity 99.5% (Liquid Phase)	110 LP 18 LP LB	45.4 kg 9.1 kg 170 g	
<b>C.P.</b> Min. Purity 99.0% (Liquid Phase)	110 LP 18 LP LB	45.4 kg 9.1 kg 170 g	

### 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