PURE GASES

HYDROGEN SELENIDE H2Se

- See Electronic Gas Section page 94 -

HYDROGEN SULFIDE H2S

General Characteristics: A colorless, flammable and liquefied gas with a detectable odor.

Health Hazards: Toxic. Causes headaches, discomfort, diarrhea and breathing paralysis. Warning: the sense of smell is anesthetized quickly by hydrogen sulfide.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
C.P. Min. Purity 99.5% (Liquid Phase)	044 016 010 LB	27.2 kg 9.1 kg 5.0 kg 227 g	Stainless-steel high purity single-stage regulator, refer to page 142 Stainless-steel lecture bottle regulator, refer to page 147
TECHNICAL Min. Purity 99.0% (Liquid Phase)	044 016	27.2 kg 9.1 kg	

TECHNICAL INFORMATION				
Molecular Weight	Dot NameHydrogen Sulfide, Liquified UN NoUN1053			
Fire Potential	Dot Class			
CGA Valve	Cas Registry			

ISOBUTANE i-C4H10

General Characteristics: A colorless, flammable and liquefied gas with a faint odor. **Health Hazards**: A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
RESEARCH Min. Purity 99.99% C02 < 10 ppm, H20 < 5 ppm, N2 < 10 ppm, 02 < 10 ppm, Other HC < 50 ppm	18 LP 010 LB	7.7 kg 3.5 kg 170 g	Single-stage high purity regulator, refer to page 140 High purity lecture bottle regulator, refer to page 146
INSTRUMENTAL Min. Purity 99.5% (Liquid Phase)	110 LP 18 LP 010 LB	52.7 kg 7.7 kg 3.5 kg 170 g	
C.P. Min. Purity 99.0% (Liquid Phase)	110 LP 18 LP 010 LB	52.7 kg 7.7 kg 3.5 kg 170 g	

TECHNICAL INFORMATION					
Molecular Weight58.12	Dot NameIsobutane				
Specific Volume6.5CF/lb	UN NoUN1969				
Fire Potential 1.8 - 8.4% in Air	Dot Class2.1				
TLV-TWANone established	Dot Label Flammable Gas				
CGA Valve510	Cas Registry				
LB180	Cylinder Pressure @ 70°F 31 psig				