PURE GASES

1,3-BUTADIENE C4H6

General Characteristics: A colorless, flammable, liquefied and odorous gas. Can form peroxide in the presence of air. Contains inhibitors to prevent polymerization.

Health Hazards: Suspected carcinogen, irritant and anesthetic at high concentrations.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
C.P. Min. Purity 99.0% (Liquid Phase)	110 LP 18 LP LB	61.3 kg 7.7 kg 170 g	Single-stage high purity regulator, refer to page 140 High purity lecture bottle regulator, refer to page 146

TECHNICAL INFORMATION		
Molecular Weight 54.09 Specific Volume 6.9CF/lb Fire Potential 2.0 - 12.0% in Air TM 7544 10.0% in Air	Dot Name	
TLV-TWA	Dot Label	

N-BUTANE C4H10

General Characteristics: A colorless, flammable and liquefied gas with a faint odor. **Health Hazards:** Relatively non-toxic anesthetic in high concentrations.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
RESEARCH	18 LP	7.0 kg	Single-stage high purity regulator, refer to page 140
Min. Purity 99.95%	LB	170 g	
INSTRUMENTAL	110 LP	54.4 kg	High purity lecture bottle regulator, refer to page 146
Min. Purity 99.5%	18 LP	7.0 kg	
(Liquid Phase)	LB	170 g	
C.P. Min. Purity 99.0% Provided with Educator Tube for Liquid Withdrawal on Request	454 110 LP 18 LP LB	232 kg 54.4 kg 7.0 kg 170 g	

TECHNICAL INFORMATION			
Molecular Weight 58.12 Specific Volume 6.4CF/lb Fire Potential 1.8 - 8.4% in Air TLV-TWA 800 ppm (ACGIH 1991-1992) CGA Valve 510 LB 180	Dot Name Butane Gas UN No.		
¹ Size 454 = 30" (o.d.) x 57" (h), equipped with helium head pressure and dip tube for liquid withdrawal.			

1-BUTENE C4H8

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	18 LP	7.7 kg	Single-stage high purity regulator, refer to page 140
Min. Purity 99.7%	LB	170 g	
C.P.	110 LP	58.0 kg	High purity lecture bottle regulator, refer to page 146
Min. Purity 99.0%	18 LP	7.7 kg	
(Liquid Phase)	LB	170 g	

TECHNICAL INFORMATION			
Molecular Weight 56.11 Specific Volume 6.7CF/lb Fire Potential 1.6 - 10% in Air TLV-TWA None established CGA Valve 510 LB 180	UN No		