

# PURE GASES

## MONOMETHYLAMINE $CH_3NH_2$

**General Characteristics:** A colorless, flammable, and liquefied gas with an ammonia-type, fish-like odor.

**Health Hazards:** Toxic. Irritates eyes, mucous membranes, and skin. Carcinogenic.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>ANHYDROUS GRADE</b> Min. Purity 98.5% (Liquid Phase)	LP239	125 lbs	Stainless-steel high purity single-stage regulator, refer to page 144 Stainless-steel lecture bottle regulator, refer to page 149
	008	5 lbs	
	LB	0.5 lb	

### TECHNICAL INFORMATION

Molecular Weight .....	31.06	Dot Name .....	Methylamine, Anhydrous
Specific Volume .....	12.1CF/lb	UN No. ....	UN1061
Fire Potential .....	4.9 - 20.7% in Air	Dot Class .....	2.3
TLV-TWA .....	10 ppm (ACGIH 1991-1992)	Dot Label .....	Poison Gas, Flammable Gas
CGA Valve .....	705	Cas Registry .....	74-89-5
LB .....	180	Cylinder Pressure @ 70°F .....	29 psig

## NEON NE

**General Characteristics:** A colorless, nonflammable, odorless, and inert gas.

**Health Hazards:** A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	NET WT.	EQUIPMENT RECOMMENDATIONS
<b>RESEARCH GRADE</b> Min. Purity 99.999% CO <sub>2</sub> < 0.5 ppm, CO < 0.5 ppm He < 8 ppm, CH <sub>4</sub> < 0.5 ppm N <sub>2</sub> < 1 ppm, O <sub>2</sub> < 0.5 ppm H <sub>2</sub> O < 0.5 ppm	049	7500 L	13.8 lbs	Double-stage high purity regulator, refer to page 137
	044	5000 L	9.2 lbs	
	016	2000 L	3.7 lbs	High purity lecture bottle regulator, refer to page 148
	008	1000 L	1.8 lbs	
	<sup>1</sup> D2	200 L	0.37 lbs	
<b>ULTRA HIGH PURITY</b> Min. Purity 99.995% CO <sub>2</sub> < 1 ppm, CO < 1 ppm He < 35 ppm, CH <sub>4</sub> < 1 ppm N <sub>2</sub> < 4 ppm, O <sub>2</sub> < 1 ppm H <sub>2</sub> O < 1 ppm	LB	50 L	0.092 lb	
	049	750 L	13.8 lbs	
	044	5000 L	9.2 lbs	
	016	2000 L	3.7 lbs	
	008	1000 L	1.8 lbs	
<sup>1</sup> D2	200 L	0.37 lb		
LB	50 L	0.092 lb		

### TECHNICAL INFORMATION

Molecular Weight .....	20.18	Dot Name .....	Neon, Compressed
Specific Volume .....	19.2CF/lb	UN No. ....	UN1065
Fire Potential .....	Nonflammable	Dot Class .....	2.2
TLV-TWA .....	None established	Dot Label .....	Nonflammable Gas
CGA Valve .....	580	Cas Registry .....	7440-01-9
LB .....	180		

<sup>1</sup>Size D<sub>2</sub> (Non-Refillable) = 4"(o.d.) x 14" (h)