

PURE GASES

METHYL CHLORIDE CH₃Cl

General Characteristics: A colorless, flammable, liquefied gas with a sweet-like odor.
Health Hazards: Toxic. Odor does not give adequate warning of presence. Affects the central nervous system.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
C.P. GRADE Min. Purity 99.5% (Liquid Phase)	LP239	100 lbs	Single-stage high purity regulator, refer to page 142
	016	25 lbs	High purity lecture bottle regulator, refer to page 148
	008	6 lbs	
	LB	0.5 lb	

TECHNICAL INFORMATION

Molecular Weight	50.49	Dot Name	Methyl Chloride
Specific Volume	7.6CF/lb	UN No.	UN1063
Fire Potential	10.7 - 17.4% in Air	Dot Class	2.1
TLV-TWA	50 ppm (ACGIH 1991-1992)	Dot Label	Flammable Gas
CGA Valve	510	Cas Registry	74-87-1
LB	180	Cylinder Pressure @ 70°F	59 psig

METHYL FLUORIDE CH₃F

– See Halocarbon 41 –

METHYL MERCAPTAN CH₃SH

General Characteristics: A colorless, flammable, and liquefied gas with an extremely strong and repulsive odor.

Health Hazards: Highly toxic; affects the central nervous system. Penetrating odor provides warning at dangerous concentrations.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
C.P. GRADE Min. Purity 99.5% (Liquid Phase)	008	6 lbs	Stainless-steel high purity single-stage regulator, refer to page 144 Stainless-steel lecture bottle regulator, refer to page 149
	LB	0.5 lb	

TECHNICAL INFORMATION

Molecular Weight	48.11	Dot Name	Methyl Mercaptan
Specific Volume	8.0CF/lb	UN No.	UN1064
Fire Potential	3.9 - 21.8% in Air	Dot Class	2.3
TLV-TWA	0.5ppm (ACGIH 1991-1992)	Dot Label	Poison Gas, Flammable Gas
CGA Valve	330	Cas Registry	74-93-1
LB	180	Cylinder Pressure @ 70°F	15 psig