

# PURE GASES

## FLUOROFORM $\text{CHF}_3$

– See Halocarbon 23 –

## HALOCARBON-12 $\text{CCl}_2\text{F}_2$ (Dichlorodifluoromethane)

**General Characteristics:** A colorless, nonflammable, noncorrosive gas. Has an ether-like odor in high concentrations. Decomposes at high temperatures to toxic substances.

**Health Hazards:** A simple asphyxiant in high concentrations.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>C.P. GRADE</b>	<sup>1</sup> DRD	50 lbs	Single-stage high purity regulator, refer to page 142
<b>Min. Purity 99.9% (Liquid Phase)</b>	<sup>1</sup> DRE LB	30 lbs 0.75 lb	High purity lecture bottle regulator, refer to page 148

### TECHNICAL INFORMATION

Molecular Weight .....	120.93	Dot Name .....	Dichlorodifluoromethane
Specific Volume .....	3.13CF/lb	UN No. ....	UN1028
Fire Potential .....	Nonflammable	Dot Class .....	2.2
TLV-TWA .....	1000 ppm (ACGIH 1991-1992)	Dot Label .....	Nonflammable Gas
CGA Valve .....	N/A	Cas Registry .....	75-71-8
LB .....	180	Cylinder Pressure @ 70°F .....	70.2 psig

<sup>1</sup>Size DRD & DRE are nonreturnable containers with 1/4 inch flare outlet.

## HALOCARBON-13 $\text{CClF}_3$ (Chlorotrifluoromethane)

**General Characteristics:** A colorless, nonflammable, noncorrosive gas. Decomposes at high temperatures to toxic substances.

**Health Hazards:** A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>C.P. GRADE</b>	044	80 lbs	Single-stage high purity regulator, refer to page 136
<b>Min. Purity 99.9% (Liquid Phase)</b>	016 LB	23 lbs 0.75 lb	High purity lecture bottle regulator, refer to page 148

### TECHNICAL INFORMATION

Molecular Weight .....	104.46	Dot Name .....	Chlorotrifluoromethane
Specific Volume .....	3.5CF/lb	UN No. ....	UN1022
Fire Potential .....	Nonflammable	Dot Class .....	2.2
TLV-TWA .....	Non established	Dot Label .....	Nonflammable Gas
CGA Valve .....	660	Cas Registry .....	75-72-9
LB .....	180	Cylinder Pressure @ 70°F .....	456.9 psig

## HALOCARBON-13B1 $\text{CBrF}_3$ (Bromotrifluoromethane)

**General Characteristics:** A colorless, nonflammable, noncorrosive gas. Decomposes at high temperatures to toxic substances.

**Health Hazards:** A simple asphyxiant at high concentrations.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>C.P. GRADE</b>	044	150 lbs	Single-stage high purity regulator, refer to page 142
<b>Min. Purity 99.7% (Liquid Phase)</b>	016 LB	28 lbs 0.75 lb	High purity lecture bottle regulator, refer to page 148

### TECHNICAL INFORMATION

Molecular Weight .....	148.91	Dot Name .....	Bromotrifluoromethane
Specific Volume .....	2.6CF/lb	UN No. ....	UN1009
Fire Potential .....	Nonflammable	Dot Class .....	2.2
TLV-TWA .....	1000 ppm (ACGIH 1991-1992)	Dot Label .....	Nonflammable Gas
CGA Valve .....	660	Cas Registry .....	75-63-8
LB .....	180	Cylinder Pressure @ 70°F .....	189 psig