

PURE GASES

HALOCARBON-12 CCl₂F₂ (Dichlorodifluoromethane)

General Characteristics: A colorless, non-flammable and non-corrosive 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 |
|---|--|-----------------------------|--|
| C.P. Min. Purity 99.9% (Liquid Phase) | ¹ DRD ¹ DRE LB | 22.7 kg 13.6 kg 340 g | Single-stage high purity regulator, refer to page 140 High purity lecture bottle regulator, refer to page 146 |

TECHNICAL INFORMATION

| | | | |
|-----------------------|----------------------------|-------------------------------|-------------------------|
| Molecular Weight..... | 120.9 | Dot Name..... | Dichlorodifluoromethane |
| Specific Volume..... | 3.13CF/lb | UN No..... | UN1028 |
| Fire Potential..... | Non-flammable | Dot Class..... | 2.2 |
| TLV-TWA..... | 1000 ppm (ACGIH 1991-1992) | Dot Label..... | Non-flammable Gas |
| CGA Valve..... | N/A | Cas Registry..... | 75-71-8 |
| LB..... | 180 | Cylinder Pressure @ 70°F..... | 70.2 psig |

¹Size DRD & DRE are non-returnable containers with 1/4 inch flare outlet.

HALOCARBON-13 CClF₃ (Chlorotrifluoromethane)

General Characteristics: A colorless, non-flammable and non-corrosive gas. Decomposes at high temperatures to toxic substances.

Health Hazards: A simple asphyxiant.

| GAS GRADE/PURITY SPEC. | CYLINDER SIZE | CONTENTS | EQUIPMENT RECOMMENDATIONS |
|---|------------------|-------------------------|--|
| C.P. Min. Purity 99.9% (Liquid Phase) | 044 016 LB | 30 kg 10 kg 340 g | Single-stage high purity regulator, refer to page 133 High purity lecture bottle regulator, refer to page 146 |

TECHNICAL INFORMATION

| | | | |
|-----------------------|------------------|-------------------------------|------------------------|
| Molecular Weight..... | 104.5 | Dot Name..... | Chlorotrifluoromethane |
| Specific Volume..... | 3.5CF/lb | UN No..... | UN1022 |
| Fire Potential..... | Non-flammable | Dot Class..... | 2.2 |
| TLV-TWA..... | None established | Dot Label..... | Non-flammable Gas |
| CGA Valve..... | 660 | Cas Registry..... | 75-72-9 |
| LB..... | 180 | Cylinder Pressure @ 70°F..... | 456.9 psig |

HALOCARBON-13B1 CBrF₃ (Bromotrifluoromethane)

General Characteristics: A colorless, non-flammable and non-corrosive 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 |
|---|------------------|-------------------------|--|
| C.P. Min. Purity 99.7% (Liquid Phase) | 044 016 LB | 30 kg 10 kg 340 g | Single-stage high purity regulator, refer to page 140 High purity lecture bottle regulator, refer to page 146 |

TECHNICAL INFORMATION

| | | | |
|-----------------------|----------------------------|-------------------------------|-----------------------|
| Molecular Weight..... | 148.9 | Dot Name..... | Bromotrifluoromethane |
| Specific Volume..... | 2.6CF/lb | UN No..... | UN1009 |
| Fire Potential..... | Non-flammable | Dot Class..... | 2.2 |
| TLV-TWA..... | 1000 ppm (ACGIH 1991-1992) | Dot Label..... | Non-flammable Gas |
| CGA Valve..... | 660 | Cas Registry..... | 75-63-8 |
| LB..... | 180 | Cylinder Pressure @ 70°F..... | 189 psig |