

FORANE® 22

CAS No. 75-45-6

Chlorodifluoromethane (CHClF₂)

GENERAL DESCRIPTION

HCFC used alone or as a component in blends in medium to low temperature refrigeration applications or in A/C (commercial and residential).

SPECIFICATIONS

(Meets AHRI 700-2017 Specifications)

	Maximum (unless otherwise noted)
Chlorodifluoromethane (R-22), wt %	99.5 (minimum)
Air and Other Non-condensable Gases, vol %	1.5
Volatile Impurities, wt %	0.5
High Boiling Residue, vol %	0.01
Moisture (H ₂ O), ppm by wt	10
Acidity, ppm by wt (as HCl)	1.0
Chloride, no visible turbidity (indicates about 3 ppm)	Pass
Particulates / solids (visually clean to pass)	Pass

PROPERTIES

Appearance	Colorless liquefied gas
Odor	Faint, ether-like odor
Molecular Mass (g/mole of blend)	86.47
Boiling Point at 1 atm	-41.4°F / -40.8°C
Flammable Limits (LFL, UFL), vol % (1 atm, 25°C)	NA / NA
ANSI/ASHRAE Standard 34 Safety Group Classification	A1
Ozone Depletion Potential (ODP) (CFC-11 = 1.0)	0.055
Global Warming Potential (GWP ⁽¹⁾) (CO ₂ = 1.0)	1,760

(1) GWP according to IPCC AR5. Values for 100-year time horizon

TEMPERATURE

	50°F	70°F	105°F	115°F	130°F
Vapor Pressure, psia ⁽²⁾	98.8	136.1	225.5	257.4	311.6
Liquid Density, lb./ft ³⁽²⁾	77.8	75.3	70.3	68.7	66.2

(2) Generated using NIST REFPROP Version 9.1

Forane® Customer Service: 1-800-245-5858

BEFORE HANDLING THIS MATERIAL, READ AND UNDERSTAND THE SDS (SAFETY DATA SHEET) FOR ADDITIONAL INFORMATION ON PERSONAL PROTECTIVE EQUIPMENT AND FOR SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION.

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forane.com

Arkema Inc. (Americas)
900 First Avenue
King of Prussia, PA 19406
Tel.: +1 610 205 7000
Fax: +1 610 205 7497
arkema-americas.com

FORANE®
REFRIGERANTS
BY ARKEMA

Headquarters: Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
Tel.: +33 (0)1 49 00 80 80
Fax: +33 (0)1 49 00 83 96
arkema.com