

FORANE®

REFRIGERANTS

CAS No. 75-10-5 (HFC-32) / 354-33-6 (HFC-125) / 754-12-1 (HFO-1234yf) / 811-97-2 (HFC-134a)

Forane® 449A

Difluoromethane (HFC-32) / Pentafluoroethane (HFC-125)/ 2,3,3,3 Tetrafluoropropene (HFO-1234yf) / 1,1,1,2 Tetrafluoroethane (HFC-134a)

GENERAL DESCRIPTION

Forane® 449A is a lower GWP, A1 (non flammable) HFO refrigerant blend designed to replace R-404A, R-507A, R-22, and R-407 series in low to medium temperature refrigeration. It can be used in new equipment or in retrofit applications.

PROPERTIES

Appearance	Colorless liquefied gas
Odor	Faint, ether-like odor
Molecular Mass (g/mole of blend)	87.2
ANSI/ASHRAE Standard 34 Safety Group Classification	A1
Ozone Depletion Potential (ODP) (CFC-11 = 1.0)	0
Global Warming Potential (GWP ⁽¹⁾) (CO ₂ = 1.0)	1396

(1) GWP according to IPCC AR4. Values for 100-year time horizon.

TEMPERATURE

	50°F	70°F	105°F	115°F	130°F
Vapor Pressure, psia ⁽²⁾	103.4	144.4	244.6	281.2	343.9
Liquid Density, lb./ft ³ (2)	72.4	69.6	63.8	61.9	58.7

(2) Generated using NIST REFPROP Version 10.0

SPECIFICATIONS

(Meets AHRI 700 - 2019 Specifications)

	Maximum (unless otherwise indicated)
Difluoromethane (HFC-32), wt %	24.3 (23.3-24.5)
Pentafluoroethane (HFC-125) wt %	24.7 (24.5-25.7)
Tetrafluoropropene (HFC-1234yf), wt %	25.3 (24.3-25.5)
1,1,1,2 Tetrafluoroethane (HFC-134a) wt %	25.7 (25.5-26.7)
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

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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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