

PRODUCT DESCRIPTION

Alpha R507A is a high-performance HFC refrigerant blend designed for low and medium temperature refrigeration systems. It is widely used as a replacement for R502 and R22, delivering consistent cooling performance, reliability, and system stability in demanding commercial and industrial environments. R507A is known for its near-azeotropic behavior, meaning it operates with minimal temperature glide, ensuring efficient heat transfer and stable operation.

APPLICATIONS

Commercial Refrigeration
Industrial Refrigeration
Transport Refrigeration
Ice Makers & Rinks
Replacement for R-502 and R-22 in existing systems and a popular choice for new installations requiring high capacity.

PACKAGING



- 11.3kg Disposable Cylinders
- 10kg Refillables
- 45kg Refillables
- 700kg Roll Drums
- 18,000kg ISO Tanks

CHEMICAL PROPERTIES

Chemical Name	Pentafluoro ethane (HFC 125) 1,1,1-Trifluoroethane (R-143a)
CAS No.	354-33-6 (125), 420-46-2 (143a)
REACH Registration	01-2119485636-25 (HFC 125) 01-2119492869-13 (R-143a)
ECC No	206-557-8 (125), 206-996-5 (143a)
Molecular Weight	98.9 (g/mol)
Form	Liquefied Gas
Color	Clear, colorless
Odor	Slight ethereal
Boiling Point	-46.7 °C
Vapor Pressure	1,061 kPa (21°C)
Density	1.10 g/cm ³ at 20°C
Vapor Density	3.43 relative to Air (Air= 1)
Partition coefficient	Log pow = 2.3 (R125); Log pow = 1.740 (R143a)
Critical Temperature	70.62 °C
Critical Pressure	537.37 bar
GWP	3985
ODP	Non-Ozone Depleting