

R-507

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition R-125 R-143a	 50 % (+1,5% - 0,5%) 50 % (+0,5% - 1,5%)
Guaranteed purity	99.5 % volume
Water content	10 ppm weight
Acidity (HCl)	1 ppm weight
Non-condensable content (gas phase)	1.5 % volume
High-boiling residues	0.01 % volume

MAIN APPLICATIONS

R-507 is an "azeotropic" HFC blend. It is typically used in industrial refrigeration applications with flooded evaporators, such as ice skating rinks.

OILS

Use a polyol ester (POE) oil.
Check with **Marsis** regarding the viscosity of the oil selected for your application, and the miscibility with the fluid under consideration.

PRECAUTIONS OF USE

Refer to the Safety Data Sheet

* Request the Safety Data Sheet (SDS) directly from the email address info@marsisltd.com



R-507 PHYSICAL PROPERTIES

Molar mass	g/mol	98.86
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-46.75
Temperature glide at 1.013 bar	K	0
Liquid density at 25°C	kg/m^3	1049
Vapour density at 1.013 bar	kg/m^3	5.585
Vapour pressure at: 25°C 50°C	 bar bar	 12.83 23.61
Critical temperature Critical pressure Critical density	°C bar kg/m^3	70.6 37.05 491
Latent heat of vaporisation at boiling point	kJ/kg	196.94
Thermal conductivity of liquid at 25°C Thermal conductivity of Vapour at 1.013 bar	W/(m.K) W/(m.K)	0.062 0.015
Surface tension at 25°C	10^{-3} N/m	4.33
Viscosity of liquid at 25°C Viscosity of vapour at 1.013 bar	10^{-3} Pa-s 10^{-3} Pa-s	0.127 0.001
Specific heat of Liquid at 25°C Specific heat of Vapour at 1.013 bar	kJ/(kg.K) kJ/(kg.K)	1.539 0.872
Cp/Cv ratio at 25°C and 1.013 bar		1.117
Flammability in air		Non-flammable
Classification NF-EN 378 ASHRAE		 A1 A1
Ozone Depletion Potential	(R-11 = 1)	0
GWP According to regulation (EU) 2024/573 (F-GAS III)	(CO_2 = 1)	3985

For more information, please contact the Marsis sales department.

For more information, please visit our website
marsisltd.com