



R-507A T

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-507A is an "azeotropic" HFC blend and comes from the recovery and regeneration of R-507A. It is authorised for use until 1 January 2030 and will allow the maintenance of equipment initially using virgin R-507A, which is prohibited since 1 January 2020.

OILS

Use a polyol ester (POE) oil.

Check with **Climalife** 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*.

REGULATION

The use and implementation of R-507A T are governed by EU Regulation n° 517/2014.

The recovery of R-507A T is mandatory under EU Regulation n° 517/2014.

(Refer to the regulations enforced in each country)

* Find the Safety Data Sheet (SDS) directly on our website www.climalife.dehon.com



R-507A T 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	bar	12.83
50°C	bar	23.61
Critical temperature	°C	70.6
Critical pressure	bar	37.05
Critical density	kg/m ³	491
Latent heat of vaporisation at boiling point	kJ/kg	196.94
Thermal conductivity of liquid at 25°C	W/(m.K)	0.062
Thermal conductivity of Vapour at 1.013 bar	W/(m.K)	0.015
Surface tension at 25°C	10 ⁻³ N/m	4.33
Viscosity of liquid at 25°C	10 ⁻³ Pa-s	0.127
Viscosity of vapour at 1.013 bar	10 ⁻³ Pa-s	0.001
Specific heat of Liquid at 25°C	kJ/(kg.K)	1.539
Specific heat of Vapour at 1.013 bar	kJ/(kg.K)	0.872
Cp/Cv ratio at 25°C and 1.013 bar		1.117
Flammability in air		Non-flammable
Classification		
ISO 817		A1
ASHRAE Standard 34		A1
Ozone Depletion Potential	(R-11 = 1)	0
GWP	(CO ₂ = 1)	3985/3985
According to IPCC-AR4/IPCC-AR5		

Please contact your distributor or our **Climalife** sales department for more information. In addition, if the refrigeration system you want to install, or are working on, does not appear to be a typical installation, please do not hesitate to contact us for advice and information.

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