



R-407C

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition:	
R-32	23 % (± 2 %)
R-125	25% (± 2 %)
R-134a	52 % (±2 %)
Guaranteed purity	≥ 99.5 % weight
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-407C is a "non azeotropic" HFC blend. It is mainly used in air conditioning applications where R22 would have previously been used.

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

Use, implementation and recovery of R-407C are governed by European regulation no. 2024/573. It is also important to refer to the regulations in force in each country in Europe and outside Europe.

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



R-407C PHYSICAL PROPERTIES

Molar mass	g/mol	86.2
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-43.63
Temperature glide at 1.013 bar	K	7,00
Saturated liquid density at 25°C	kg/m ³	1137
Saturated vapour density at boiling point	kg/m ³	4.63
Vapour pressure at: 25°C	bar	11.90
50°C	bar	22.16
Critical temperature	°C	86.0
Critical pressure	bar	46.29
Critical density	kg/m ³	484
Latent heat of Vaporisation at 1.013 bar	kJ/kg	249,08
Thermal conductivity of liquid at 25°C	W/(m.K)	0.084
Thermal conductivity vapour at 1.013 bar	W/(m.K)	0.014
Surface tension at 25°C	10 ⁻³ N/m	6.94
Solubility of water in the fluid at 25°C	% weight	0.037
Viscosity of liquid at 25°C	10 ⁻³ Pa-s	0.154
Viscosity of vapour at 1.013 bar	10 ⁻³ Pa-s	0.012
Specific heat of liquid at 25°C	kJ/(kg.K)	1.535
Specific Heat of Vapour at 1.013 bar	kJ/(kg.K)	0.837
Cp/Cv ratio at 25°C at 1.013 bar		1.144
Flammability in air		non-flammable
Flash point	°C	none
Classification NF-EN 378 / ASHRAE PE(S)R		A1 Category 2
Ozone Depletion Potential	(R-11 = 1)	0
GWP according to Regulation (EU) 2024/573 (F-Gas III) GWP (AR4 / AR6)	(CO ₂ = 1)	1774 1774 / 1908

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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