



## 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
Chloride ion test	Negative
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

The use and implementation of R-407C are governed by EU Regulation n° 517/2014.

The recovery of R-407C 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](http://www.climalife.dehon.com)



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## R-407C PHYSICAL PROPERTIES

Molar mass	g/mol	86.2
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-43.81
Temperature glide at 1.013 bar	K	7.08
Saturated liquid density at 25°C	kg/m <sup>3</sup>	1138
Saturated vapour density at boiling point	kg/m <sup>3</sup>	4.63
Vapour pressure at: 25°C	bar	11.88
50°C	bar	22.1
Critical temperature	°C	86.05
Critical pressure	bar	46.34
Critical density	kg/m <sup>3</sup>	512.7
Latent heat of Vaporisation at 1.013 bar	kJ/kg	248
Thermal conductivity of liquid at 25°C	W/(m.K)	0.08779
Thermal conductivity vapour at 1.013 bar	W/(m.K)	0.01268
Surface tension at 25°C	10 <sup>-3</sup> N/m	6.9
Solubility of water in the fluid at 25°C	% weight	0.037
Viscosity of liquid at 25°C	10 <sup>-3</sup> Pa-s	0.1528
Viscosity of vapour at 1.013 bar	10 <sup>-3</sup> Pa-s	0.01253
Specific heat of liquid at 25°C	kJ/(kg.K)	1.529
Specific Heat of Vapour at 1.013 bar	kJ/(kg.K)	0.8366
Cp/Cv ratio at 25°C at 1.013 bar		1.143
Flammability in air		non-flammable
Flash point	°C	none
NF-EN 378 classification		L1
Ozone Depletion Potential	(R-11 = 1)	0
GWP	(CO <sub>2</sub> = 1)	1774

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.

The information contained in this product sheet is the result of our studies and experience. It is provided in good faith, but should not, under any circumstance, be taken to constitute a guarantee on our part or an assumption of our responsibility. This is particularly the case when third party rights are at stake or in situations where a user of one of our products fails to observe applicable regulations.

For more information, please visit our website:  
[http://www.climalife.dehon.com/contact\\_us](http://www.climalife.dehon.com/contact_us)

