



R-32

DIFLUOROMETHANE CH₂F₂

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Purity	≥ 99.5 % weight
Water content	≤ 10 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume
High boiling Residue	≤ 0.01 % volume
Acidity (HCl)	≤ 1 ppm weight

MAIN APPLICATIONS

R32 is a low GWP "hydrofluorocarbon" (HFC). It is an A2L Refrigerant meaning it is mildly flammable. It is used in small split Air Conditioning systems where the charge size complies with the requirements of EN378. It is not a retrofit option for other AC systems running on other refrigerants. It is also used as a component in both HFC and HFO blends.

OILS

Use a polyol ester (POE) oil suitable for R32. Standard POE is not miscible.

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-32 are governed by EU Regulation n° 517/2014.

The recovery of R-32 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



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R-32 PHYSICAL PROPERTIES

Molar mass	g/mol	52.02
Melting point	°C	-136.81
Boiling point (at 1.013 bar)	°C	-51.65
Temperature glide at 1.013 bar	K	0
Saturated liquid density at 25°C	kg/m ³	961
Saturated vapour density at boiling point	kg/m ³	2.987
Vapour pressure at: 25°C	bar	16.9
50°C	bar	31.4
Critical temperature	°C	78.11
Critical pressure	bar	57.82
Critical density	kg/m ³	424
Latent heat of Vaporisation at 1.013 bar	kJ/kg	381
Thermal conductivity of liquid at 25°C	W/(m.K)	0.135
Thermal conductivity vapour at 1.013 bar	W/(m.K)	0.0124
Surface tension at 25°C	10 ⁻³ N/m	6.79
Solubility in water at 25°C		Insoluble
Solubility in solvents		Soluble in alcohols
Viscosity of liquid at 25°C	10 ⁻³ Pa-s	0.114
Viscosity of vapour at 1.013 bar	10 ⁻³ Pa-s	0.113
Specific heat of liquid at 25°C	kJ/(kg.K)	1.94
Specific Heat of Vapour at 1.013 bar	kJ/(kg.K)	0.848
Cp/Cv ratio at 25°C at 1.013 bar		1.252
Flammability in air		
- Lower flammability limit	% volume	12.7
- Upper flammability limit	% volume	33.4
Flash point	°C	<-50
NF-EN 378 classification		L2
Ozone Depletion Potential	(R-11 = 1)	0
GWP	(CO ₂ = 1)	675

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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For more information visit our website :



http://www.climalife.dehon.com/contact_us