



R-236fa

1,1,1,3,3,3 – HEXAFLUOROPROPANE $\text{CF}_3\text{-CH}_2\text{-CF}_3$

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Purity	≥ 99.5 % weight
Water content	≤ 10 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume
Chloride ion test	Negative
High-boiling residues	≤ 0.01 % volume
Total acidity (HCl)	≤ 1 ppm weight

MAIN APPLICATIONS

R-236fa is a hydrofluorocarbon (HFC) used mainly in air-conditioning systems replacing R-114 and R-124, such as military seaborne equipment water coolers.

It can also be used for rolling bridge / crane air-conditioning.

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-236fa are governed by EU Regulation n° 517/2014.

The recovery of R-236fa 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-236fa

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R-236FA PHYSICAL PROPERTIES

Molar mass	g/mol	152.04
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-1.44
Saturated liquid density at 25°C	kg/m ³	1360
Saturated vapour density at boiling point	kg/m ³	7.14
Vapour pressure at: 25°C	bar	2.72
50°C	bar	5.84
Critical temperature	°C	124.92
Critical pressure	bar	32.0
Critical density	kg/m ³	551.3
Latent heat of vaporisation at boiling point	KJ/kg	160
Thermal conductivity of liquid at 25°C	W/(m.K)	0.0728
Thermal conductivity of vapour at 1.013 bar	W/(m.K)	0.0126
Surface tension at 25°C	10 ⁻³ N/m	10.07
Viscosity of liquid at 25°C	10 ⁻³ Pa-s	0.286
Viscosity of vapour at 1.013 bar	10 ⁻³ Pa-s	0.011
Specific heat of liquid at 25°C	kJ/(kg.K)	1.21
Specific heat of vapour at 1.013 bar	kJ/(kg.K)	0.81
Cp/Cv ratio at 25°C at 1.013 bar		1.083
Flammability in air		non-flammable
Flash point	°C	None
NF-EN 378 classification		L1
Potential effect on ozone	(R-11 = 1)	0
GWP	(CO ₂ = 1)	9810

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, please visit our website:
http://www.climalife.dehon.com/contact_us

