



climalife®

VIN-FP-535/006

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
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 marine water coolers.

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

Contact **Climalife** for more information on using R-1234ze as a replacement for a new installation in certain applications.

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



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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	-1.49
Saturated liquid density at 25°C	kg/m ³	1360
Saturated vapour density at boiling point	kg/m ³	7.151
Vapour pressure at: 25°C	bar	2.72
50°C	bar	5.83
Critical temperature	°C	124.90
Critical pressure	bar	32.0
Critical density	kg/m ³	551
Latent heat of vaporisation at boiling point	KJ/kg	159.39
Thermal conductivity of liquid at 25°C	W/(m.K)	0.073
Thermal conductivity of vapour at 1.013 bar	W/(m.K)	0.013
Surface tension at 25°C	10 ⁻³ N/m	9.59
Viscosity of liquid at 25°C	10 ⁻³ Pa-s	0.285
Viscosity of vapour at 1.013 bar	10 ⁻³ Pa-s	0.011
Specific heat of liquid at 25°C	kJ/(kg.K)	1.238
Specific heat of vapour at 1.013 bar	kJ/(kg.K)	0.838
Cp/Cv ratio at 25°C at 1.013 bar		1.084
Flammability in air		non-flammable
Flash point	°C	None
Classification		
NF-EN 378		A1
ASHRAE		A1
Potential effect on ozone	(R-11 = 1)	0
GWP	(CO ₂ = 1)	
According to IPCC-AR4/IPCC-AR5		9810/8060

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

