



R-422A (FREON® MO79)

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition	85.1 % (-1.0 /+1.0)
R-125	11.5 % (-1.0 /+1.0)
R-134a	3.4 % (-0.4 /+0.1)
R-600a	
Guaranteed purity	≥ 99.5 % weight
Water content	≤ 10 ppm weight
Chloride ion test	Negative
Acidity	≤ 1 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume
High-boiling residues	≤ 0.01 % volume

MAIN APPLICATIONS

R422A (FREON® MO79) is a zeotropic HFC blend intended to replace R-22, R-502, and R-22 based mixtures as “drop in”, used in direct expansion commercial and industrial refrigeration applications. It can also be used in new direct expansion equipment.

OILS

Use a mineral (MN), alkylbenzene (AB), or 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-422A are governed by EU Regulation n° 517/2014.

The recovery of R-422A is mandatory under EU Regulation n° 517/2014.

(Refer to the regulations enforced in each country)

* Find Safety Data Sheets (SDS) by subscribing to the member space on our website www.climalife.dehon.com



R-422A

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R-422A PHYSICAL PROPERTIES

Molar mass	g/mol	116
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-48.6
Temperature glide at 1.013 bar	K	2.49
Saturated liquid density at 25°C	kg/m ³	1136
Saturated vapour density at boiling point	kg/m ³	5.620
Vapour pressure at: 25°C	bar	12.74
50°C	bar	23.34
Critical temperature	°C	71.7
Critical pressure	bar	37.48
Critical density	kg/m ³	538
Latent heat of vaporisation at boiling point	kJ/kg	175.8
Thermal conductivity of liquid at 25°C	W/(m.K)	0.0602
Thermal conductivity vapour at 1.013 bar	W/(m.K)	0.0144
Surface tension at 25°C	10 ⁻³ N/m	4.492
Viscosity of liquid at 25°C	10 ⁻³ Pa-s	0.143
Viscosity of vapour at 1.013 bar	10 ⁻³ Pa-s	0.0127
Specific heat of liquid at 25°C	kJ/(kg.K)	1.448
Specific heat of vapour at 1.013 bar	kJ/(kg.K)	0.833
Cp/Cv ratio at 25°C at 1.013 bar		1.105
Flammability in air		non-flammable
Flash point	°C	none
NF-EN 378 classification		L1
Ozone Depletion Potential	(R-11 = 1)	0
GWP	CO2 =1	3144

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

