



R-422 A

(ISCEON MO79)

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition	
R-125	85.1 % (-1.1 /+1.1)
R-134a	11.5 % (-1.0 /+1.0)
R-600a	3.4 % (-0.4 /+0.1)
Guaranteed purity	≥ 99 % weight
Water content	≤ 10 ppm weight
Chlorine ion test (silver nitrate test)	none
Acidity	≤ 1 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume

MAIN APPLICATIONS

ISCEON® MO79 is a HFC type zeotropic mixture 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 setups.

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

In France, ISCEON® MO79 recovery is mandatory as per the decree of 12.07.1992.

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



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R-422 A (ISCEON MO79) PHYSICOCHEMICAL PROPERTIES

Molar mass	g/mol	116
Melting point	°C	N/A
Boiling point (under 1.013 bar)	°C	-48.6
Temperature drift under 1.013 bar	K	2.49
Saturated fluid density at 25°C	kg/m ³	1136
Saturated vapour density at 25°C	kg/m ³	74.3
Vapour pressure at: 25°C 50°C	bar	12.74 23.34
Critical temperature	°C	71.7
Critical pressure	bar	37.50
Critical density	kg/m ³	538
Latent heat of vaporisation at boiling point	kJ/kg	175.8
Thermal conductivity at 25°C		
Liquid	W/(m.K)	0.0602
Vapour under 1.013 bar		0.0144
Surface tension at 25°C	10 ⁻³ N/m	4.492
Viscosity at 25°C		
Liquid	10 ⁻³ Pa-s	0.143
Vapour under 1.013 bar		0.0127
Specific heat at 25°C		
Liquid	kJ/(kg.K)	1.446
Vapour under 1.013 bar	kJ/(kg.K)	0.832
Cp/Cv ratio at 25°C under 1.013 bar		1.105
Flammability in air		non-flammable
Flashing point		none
NF-EN 378 classification		L1
Potential effect on ozone	(R-11 = 1)	0
GWP	CO2 =1	2530

For more information, please contact your distributor or the "Fluid info" technical adviser of your **Climalife** branch. Also, if the refrigerated system you want to install does not appear to you as a typical case, we are at your service to provide opinions and advices.

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.

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