



R-1270

Propylene

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD CHARACTERISTICS	LIMIT VALUE
Purity	≥ 99.5 % weight
Total polyolefins C3 – C4 – C5	≤ 0.05 % weight
Other volatile impurities	≤ 0.5 % weight
High boiling residues	≤ 0.01 % weight
Non-condensable content (gas phase)	≤ 1.5 % volume at 25°C
Water content	≤ 10 ppm weight
Sulphur odour	Odourless
Total acidity (HCL)	≤ 1 ppm weight
Particles / Solids	Clear

MAIN APPLICATIONS

R-1270 is a hydrocarbon for industrial refrigeration applications.

OILS

Use an oil adapted to the machine (mineral (MIN), polyalphaolefin (PAO), polyalkylene glycol (PAG), etc.). Check with **Climalife** the viscosity of the oil chosen according to your application and its miscibility with the fluid in question.

PRECAUTIONS OF USE

Refer to the Safety Data Sheet*.

REGULATION

R-1270 is a product classified as extremely flammable (A3).
Refer to the decree of 14 February 2000 (ERP) published in the Official Journal of 21 March 2000.
(Refer to the regulations in force in the country concerned)

*Find the Safety Data Sheets (SDS) directly on our website www.climalife.dehon.com.


PHYSICAL PROPERTIES OF R-1270

Molar mass	g/mol	42.1
Melting point	°C	-184.56
Boiling point (at 1.013 bar)	°C	-47.62
Saturated liquid density at 25°C	kg/m ³	506
Vapour density at boiling point	kg/m ³	2.358
Vapour pressure at: 25°C 50°C	bar	11.54 20.54
Critical temperature	°C	91.06
Critical pressure	bar	45.55
Critical density	kg/m ³	230
Latent heat of vaporisation at boiling point	kJ/kg	438.89
Thermal conductivity at 25°C Liquid Vapour at 1.013 bar	W/m.K	0.105 0.017
Surface tension at 25°C	10 ⁻³ N/m	6.96
Viscosity at 25°C Liquid Vapour at 1.013 bar	10 ⁻³ Pa.s	0.094 0.009
Specific heat at 25°C Liquid Vapour at 1.013 bar	kJ/(kg.K)	2.669 1.551
Cp/Cv ratio at 25°C at 1.013 bar		1.157
Flammability in air		Non-flammable
Flash point	°C	-108
Classification NF-EN 378 / ASHRAE		A3 / A3
Ozone Depletion Potential		0
GWP		2 according to UNEP OZONE Report 2010

Please contact your distributor or 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.



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