



## Solstice® ze

R-1234ze - (Trans-1,3,3,3-tetrafluoroprop-1-ene)

### GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATION*	LIMIT VALUE
Purity	≥ 99.5 % weight
Water content	≤ 10 ppm weight
Total Acidity (HCL)	≤ 1 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume

\* (data producer)

### MAIN APPLICATIONS

**Solstice® ze** is a single component fluorinated gas from the HFO family. This product has a very low GWP figure and is suitable for refrigeration, chillers and heat pumps applications.

### OILS

Use a polyol ester (POE) oil.

Consult **Climalife** regarding the viscosity of the oil selected for your application and the most suitable for your application.

### PRECAUTIONS OF USE

Refer to the Safety Data Sheet\*.

### REGULATION

Use, implementation and recovery of **Solstice® ze** are governed by European regulation no. 2024/573.

It is also important to refer to the regulations in force in each country in Europe and outside Europe.

\* Find the Safety Data Sheet (SDS) directly on our website [www.climalife.com](http://www.climalife.com)

## SOLSTICE® ZE PHYSICO-CHEMICAL PROPERTIES

Molar mass	g/mol	114.04
Melting point	°C	-104.53
Boiling point (at 1.013 bar)	°C	-18.98
Saturated fluid density at 25°C	kg/m <sup>3</sup>	1163
Vapour density at boiling point	kg/m <sup>3</sup>	5.705
Vapour pressure at: 25°C	bar	4.99
50°C	bar	9.97
Critical temperature	°C	109.4
Critical pressure	bar	36.35
Critical density	kg/m <sup>3</sup>	489.24
Latent heat of vaporisation at boiling point	kJ/kg	195.62
Thermal conductivity of liquid at 25°C	W/m.K	0.0744
Thermal conductivity of vapour at 1.013 bar	W/m.K	0.014
Surface tension at 25°C	10 <sup>-3</sup> N/m	8.85
Viscosity of liquid at 25°C	10 <sup>-3</sup> Pa.s	0.199
Viscosity of vapour at 1.013 bar	10 <sup>-3</sup> Pa.s	0.0123
Specific heat of liquid at 25°C	kJ/(kg.K)	1.386
Specific heat of vapour at 1.013 bar	kJ/(kg.K)	0.889
Cp/Cv ratio at 25°C under 1.013 bar		1.101
Flammability in air		Mildly flammable
Flashing point		None
Classification NF-EN 378 PED		A2L Category 2
Ozone Depletion Potential		0
GWP according to Regulation (EU) 2024/573 (F-Gas III)	(CO <sub>2</sub> = 1)	1.37
GWP (AR4 / AR6)		7 / 1.37

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.

**Solstice® is a registered trademark of Honeywell International Inc.**

*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 :  
[climalife.com/contact\\_us](https://climalife.com/contact_us)



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