



R-508 B

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition	
R-23	46 % (± 1 %)
R-116	54 % (± 1 %)
Guaranteed purity	≥ 99.5 % volume
Water content	≤ 10 ppm weight
Acidity (HCl)	≤ 1 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume
High-boiling residues	≤ 0.01 % volume

MAIN APPLICATIONS

R-508B is a HFC azeotropic blend intended for very low temperature refrigeration applications. It has also been used to replace R-503.

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

Use, implementation and recovery of R-508B 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



R-508B PHYSICAL PROPERTIES

Molar mass	g/mol	95.39
Temperature glide	K	0.44
Boiling point (at 1.013 bar)	°C	-87.60
Saturating vapour density at normal boiling point	kg/m ³	6.548
Critical temperature	°C	11.20
Critical pressure	bar	37.72
Critical density	kg/m ³	568
Latent heat of vaporisation at 1.013 bar	kJ/kg	165.36
Thermal conductivity of liquid at -30°C	W/(m.K)	0.013
Thermal conductivity of vapour at 1.013 bar	W/(m.K)	
Surface tension at 25°C	10 ⁻³ N/m	N/A
Viscosity at 25°C	10 ⁻³ Pa-s	N/A
Liquid		0.015
Vapour under 1.013 bar		
Mass heat at 25°C	kJ/(kg.K)	N/A
Liquid		0.757
Vapour under 1.013 bar		
Cp/Cv ratio at 25°C at 1.013 bar		1.136
Flammability in the air		Non flammable
Classification		A1
NF-EN 378		A1
ASHRAE		
Ozone Depletion Potential	(R-11 = 1)	0
GWP according to Regulation (EU) 2024/573 (F-Gas III)	(CO ₂ = 1)	13504
GWP (AR4 / AR6)		13396 / 13412

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.

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