



R-456A

GUARANTEED COMMERCIAL SPECIFICATION

STANDARD SPECIFICATION *	LIMIT VALUE
Composition	
- R-1234ze(E)	49 % (±1 %)
- R-134a	45 % (±1 %)
- R-32	6 % (±1 %)
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

R-456A is a non-flammable blend of hydrofluorocarbon (HFC) and hydrofluoro-olefin (HFO). It is a replacement for R-134a for automotive and agricultural air conditioning systems designed to use R-134a.

OILS

Use a polyalkylene glycol (PAG).
Consult **Climalife** to select the most suitable oil selected for your application.

PRECAUTIONS OF USE

Refer to the Safety Data Sheet *.

REGULATION

The use and implementation of R-456A is governed by the European Regulation N° 517/2014. The recovery of R-456A is mandatory under EU Regulation 517/2014.
(Refer to the regulations in force in each country)

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


R-456A PHYSICAL PROPERTIES

Molar mass	g/mol	101.4
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-30.8
Temperature glide at 1.013 bar	K	5.41
Saturated liquid density at 25°C	kg/m ³	1164
Vapour density at boiling point	kg/m ³	5.20
Vapour pressure at: 25°C 50°C	bar	7.36 14.10
Critical temperature	°C	102.66
Critical pressure	bar	41.75
Critical density	kg/m ³	475
Latent heat of vaporisation at boiling point	kJ/kg	220.78
Thermal conductivity at 25°C Liquid Vapour at 1.013 bar	W/m.K	0.080 0.014
Surface tension at 25°C	10 ⁻³ N/m	8.19
Viscosity at 25°C Liquid Vapour at 1.013 bar	10 ⁻³ Pa.s	0.180 0.012
Specific heat at 25°C Liquid Vapour at 1.013 bar	kJ/(kg.K)	1.434 0.870
Cp/Cv ratio at 25°C at 1.013 bar		1.117
Flammability in air		Non flammable
Flash point		None
Classification	ASHRAE NF-EN 378	A1
Ozone Depletion Potential		0
GWP	IPCC-AR4 IPCC-AR5	687 626

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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