



Ref.: FF.100 /06.17/V2/ EN

R-455A

GUARANTEED COMMERCIAL SPECIFICATION

7
LIMIT VALUE
75.5 % (+2.0% - 2.0%)
21.5 % (+2.0% - 2.0%)
3 % (+2.0% - 2.0%)
99.5 % weight
≤ 10 ppm weight
Negative
≤ 1 ppm weight
≤ 1.5 % volume

^{*} data producer

MAIN APPLICATIONS

R-455A is a mildly flammable, non-azeotropic blend designed to serve as an alternative for low, medium and high temperature applications in new systems and has a GWP <150. Its thermodynamic performance allows it to be used as a replacement for R-22 and R-404A in low and medium temperature refrigeration.

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

The use and implementation of R-455A are governed by the European Regulation No 517/2014.

The recovery of R-455A is mandatory under the European Regulation No 517/2014. (Refer to regulations enforced in each country.)

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





R-455A PHYSICAL PROPERTIES

Molar mass	g/mol	87.5
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-52.03
Temperature glide at 1.013 bar	K	12.85
Saturated liquid density at 25°C	kg/m³	1033
Vapour density at boiling point	kg/m³	4.747
Vapour pressure at:		
25°C	bar	13.85
50°C		24.43
Critical temperature	°C	85.61
Critical pressure	bar	46.54
Critical density	kg/m³	455
Latent heat of vaporisation at boiling point	kJ/kg	239.46
Thermal conductivity at 25°C		
Liquid	W/m.K	0.077
Vapour at 1.013 bar		0.014
Surface tension at 25°C	10 ⁻³ N/m	6.99
Viscosity at 25°C		
Liquid	10 ⁻³ Pa.s	0.127
Vapour at 1.013 bar		0.012
Specific heat at 25°C		
Liquid	kJ/(kg.K)	1.567
Vapour at 1.013 bar		0.890
Cp/Cv ratio at 25°C at 1.013 bar		1.131
Flammability in air		Mildly flammable
Flash point		None
Classification NF-EN 378		A2L
ASHRAE		A2L
Ozone Depletion Potential		0
GWP		148
4th Assessment		146
5th Assessment		

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 expension. In good can, but should not an our early 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.

