

## R449A

**NAME:** R449A

**TYPE:** MIXTURE OF HFC32 - HFC125 - HFC134a - HFO 1234yf (24,3/24,7/25,7/25,3%)

**CHEMICAL FORMULA:** CH<sub>2</sub>F<sub>2</sub> - C<sub>2</sub>H<sub>5</sub>F - C<sub>2</sub>H<sub>2</sub>F<sub>4</sub> - C<sub>3</sub>H<sub>2</sub>F<sub>4</sub>

**TYPICAL USE:** REFRIGERANT GAS

### TYPICAL PROPERTIES: (in according to AHRI 700-2017)

HFC-32	24,3	(23,3÷24,5)*	% wt
HFC-125	24,7	(24,5÷25,7)*	% wt
HFC-134a	25,7	(25,5÷26,7)*	% wt
HFC-1234yf	25,3	(24,3÷25,5)*	% wt

PURITY	> 99,5	% wt
MOISTURE	< 10	ppm
ACIDITY (as HCL)	< 1	ppm
CHLORIDES	< 3	ppm
EVAPORATION RESIDUE	< 100	ppm
UNCONDENSABLE GASES	< 1,5	% Vol

### CHEMICAL - PHYSICAL PROPERTIES:

Color	Colorless
Molecular Weight	87,2 g/mol
Boiling Point at 101,3 kPa	-46,0 °C
Critical temperature	81,5 °C
Critical Pressure	4447 kPa
Liquid density at 21,1 °C	1113,3 Kg/m <sup>3</sup>
Flammability	none

\*Limit of specific

GWP	1397
ODP	0
ADR/RID	2.2
UN NUMBER	1078
ASHRAE	A1

**Date: 11/2019 - Rev. 1**