

# R-449A

## SPECIFICATIONS FROM AHRI STANDARD 700

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition	
R-32: 24,3 %	$23,3 \% \leq R-32 \leq 24,5 \%$
R-1234yf: 25,3 %	$24,3 \% \leq R-1234yf \leq 25,5 \%$
R-125: 24,7 %	$24,5 \% \leq R-125 \leq 25,7 \%$
R-134a: 25,7 %	$25,5 \% \leq R-134a \leq 26,7 \%$
Purity	$\geq 99,5 \%$ weight
Water content	$\leq 10$ ppm weight
Acidity (HCl)	$\leq 1$ ppm weight
Condensable content (gas phase)	$\leq 1,5 \%$ volume
High boiling residue	$\leq 0,01 \%$ volume

## PHYSICAL PROPERTIES

Name	Difluoromethane 24,3 % weight Pentafluoroethane 24,7 % weight 2,3,3,3-tetrafluoropropene 25,3 % weight 1,1,1,2-tetrafluoroethane 25,7 % weight
Chemical formula	$CH_2F_2 / CHF_2-CF_3 / CF_3-CF=CH_2 / CF_3-CH_2F$
Boiling point at 1,013 bar	Bubble: $-45,7 \text{ }^\circ\text{C}$ Dew: $-40,0 \text{ }^\circ\text{C}$
Critical temperature	$81,5 \text{ }^\circ\text{C}$
GWP [AR4]	1 397
Security class (ISO817, EN378, ASHRAE34)	A1
Ozone Depletion Potential	0
Lower flammability limits [ $\text{kg}/\text{m}^3$ ]	Ininflammable
Oil	Alkyl-Benzène, POE (PolyolEster)

## PACKAGING

12L, 20L, 62L, 900L

## SUBSTITUTION

- R-404A
- R407A
- R-507
- R-407F

## DIFFERENT MARKET NAMES

- OPTEON™ XP40