

# R507

**NAME:** R507

**TYPE:** MIXTURE OF HFC125 - HFC143a (50/50%)

**CHEMICAL FORMULA:** CHF<sub>2</sub>CF<sub>3</sub>/CH<sub>3</sub>CF<sub>3</sub>

**TYPICAL USE:** REFRIGERANT GAS

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

HFC-125	50	(49,5÷51,5)*	% wt
HFC-143a	50	(48,5÷50,5)*	% 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	
Smell	Ethereal	
Molecular Weight	98,8	Kg/mol
Boiling Point at 1013 mbar	-46,7	°C
Critical temperature	70,60	°C
Critical Pressure	37,94	Bar
Liquid density at 25° C	1,05	Kg/l
Water solubility	1,25	g/l
Specific Heat of the saturated liquid cp at 25°C	1,44	kJ/kg
Relative density (air = 1)	3,43	
Vapor Pressure at 20°C (a)	0,748	KPA
Flammability	none	

\*Limit of specific

GWP	3985
ODP	0
ADR/RID	2.2
UN NUMBER	3163
ASHRAE	A1

**Date: 11/2019 - Rev. 2**