



# R404A

**NAME:** R404A

**TYPE:** MIXTURE OF R125 - R143a - R134a (44/52/4%)

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

**TYPICAL USE:** REFRIGERANT GAS

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

HFC-125	44	(42÷46)*	% wt
HFC-143a	52	51÷53)*	% wt
HFC-134a	4	(2÷6)*	% 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	97,6	Kg/mol
Boiling Point at 1013 mbar	-46,6	°C
Critical temperature	72,1	°C
Critical Pressure	37,4	Bar
Liquid density at 25° C	1,045	Kg/l
Vapour density at 25° C	65,35	Kg/m <sup>3</sup>
Specific Heat of the saturated liquid cp at 25°C	1,541	kJ/kg
Specific Heat of the saturated vapor cp at 25°C	1,200	kJ/kg
Ratio cp/cv (saturated vapour) at 25°C	1.35	
Enthalpy at 25°C	140,1	kJ/kg
Vapor Pressure at 20°C (a)	11,02	Bar
Vapor Pressure at 50°C (a)	23,13	Bar
Flammability	none	
*Limit of specific		
GWP	3922	
ODP	0	
ADR/RID	2.2	
UN NUMBER	3337	
ASHRAE	A1	

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