

## R-404A (English version)

Chemical name: Pentafluorethaan/trifluorethaan/1,1,1,2 -tetrafluorethaan

Formula:  $\text{CHF}_2\text{CF}_3 / \text{CH}_3\text{CF}_3 / \text{CH}_2\text{FCF}_3$

### Specification / grade

Purity	99.5	by weight %
Mixture	R-125 ( $\text{CHF}_2\text{CF}_3$ ) Min. 42 – Max. 46	by weight %
	R-143a ( $\text{CH}_3\text{CF}_3$ ) Min. 51 – Max 53	by weight %
	R-134a ( $\text{CH}_2\text{FCF}_3$ ) Min. 2 – Max. 6	by weight %
Impurities	Humidity	10 ppm
	Residual	50 ppm
	Acidity as HCl	0.1 ppm
	Non soluble gases in vapour phase	1.5 vol %

### Cylinder / content specification

	V <sub>cil</sub> (l)	m <sub>gas</sub> (kg)	Productcode
Cylinders	12	10	5330112
	27	22	5330127
	61	49	5330161
Bundle barrel	820	598	5331182

### Cylinder characteristics

Colour according to standard	-	
Shoulder	Pure white	RAL 9010
Cylindrical part	Pure white	RAL 9010
Connection according to NEN 3268	RU 1	

### Physical properties

Average molecular weight (kg/kmol)	97,6		
Density saturated vapour (kg/m <sup>3</sup> at -15 °C)	18,20		
Density liquid (kg/m <sup>3</sup> at 25 °C)	1048		
Boiling point (°C) (K)	-46,7	respective	226,5
Critical temperature (°C) (K)	72,1	respective	345,3
Vapour pressure (bar at 25 °C)	12,55		

### Additional information

Material Safety Data Sheet	Cooling gas R-404A (VIB nr. 9206)
Product description	Colourless liquid with ethereal odour
Designation according to ASHRAE	R-404A
Ozone depletion potential (O.D.P.) (CFK -11 = 1)	0
Warming up factor (HGWP) (CFK -11 = 1)	0,94

### Applications

Low temperature transport Low to average temperature for commercial cooling	Cooling agent for temperature area between -50 and -5°C
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Linde Gas Benelux B.V.  
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