

R-422A ISCEON® M079 (English version)

Chemical name: Tetrafluoroethane / Pentafluoroethane / iso-butane
 Formula: $\text{CF}_3\text{CH}_2\text{F}$ / CF_3CHF_2 / C_4H_{10}

Specification / grade

Purity	99.5 weight %		
Mixture	R-125	Min 84.0 – Max	86.2 weight %
	R-134a	Min 10.5 – Max	12.5 weight %
	R-600a	Min 3.0 - Max	3.5 weight %
Impurity	Moisture	10 ppm	
	Residue	0.05ppm	
	Acidity as HCl	1 ppm	

Cylinder / content specification

	V_{cyl} (l)	m_{gas} (kg)	Product code
Cylinders	12.3	10.5	5500112
	61.0	53.5	5500161

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)	113.6		
Density saturated vapour (kg/m ³ at -15 °C)	20.54		
Density liquid (kg/m ³ at 25 °C)	1136		
Boiling point (°C) (K)	-46.5	respective	226.7
Critical temperature (°C) (K)	71.8	respective	345.0
Vapour pressure (bar at 25 °C)	12.76		

Additional information

Material Safety Data Sheet	ISCEON M079 (VIB nr. 352)
Product description	Colourless liquid with ethereal odour
Designation according to ASHRAE	R-422A
Ozone depletion potential (O.D.P.) (CFK-11 = 1)	0
Warming up factor (HGWP) (CFK-11 = 1)	2530

Applications

Low temperature refrigerant for commercial and industrial cooling	Cooling agent for temperature area between -45 °C and 0 °C Alternative for R-22
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