Product sheet Opteon™ XP40 (R-449A)

Product name	Opteon™ XP40 (R-449A)
Physical state	liquefied under pressure
Chemical sign	CH_2F_2 + CHF_2CF_3 + CF_3CH_2F
Chemical designation	R-449A
Purity	99,5 %
Standard	DIN 8960
Properties	see safety data sheet
Shoulder color	yellow green (RAL 6018)

Components	
R-32 Difluoromethane	24,3 wt%
R-125 (Pentafluoroethane)	24,7 wt%
R-134a (1,1,1,2-Tetrafluoroethane)	25,7 wt%
R-1234yf (2,3,3,3-Tetrafluoroprop-1-ene)	25,3 wt%

Minor components	Maximum values
Moisture	25,0 wt. ppm
high-boiling residues	50,0 wt. ppm
non-condensable gases	1,5 vol.%
organic substances	0,5 wt%

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Refrig. R449A T12 RCyl:10 kg	S06850112	steel	12,0 l		10,0 kg		
Refrig. R449A T61 RCyl: 53 kg	S06850161	steel	61,0 l		53,0 kg		
Vapour pressure corresponds to 293.15 K (20°C).							

Typical applications

- as a refrigerant

Typical applications

- in commercial refrigeration
- in cooling
- in deep freezing

Physical data

operating figures	Safety group according to DIN EN 378	A1
	Global warming potential (GWP_{100})	1397
	Molar mass	87,2 g mol^{-1}
	ozone depletion potential	0
Liquid State	Boiling temperature at the bubble point	227,15 (-46,0) K (°C)
Critical Point	Temperature	354,65 (81,5) K (°C)
	Pressure	44,1 bar

All mentioned data, values and notes correspond to actual state of knowledge on the date of printing. They make no claim to be correct or complete and therefore do not release the user from his obligation to check them.

Current state 13.09.2020

Westfalen Gas Schweiz GmbH • Sisslerstr. 11 • 5074 Eiken AG • www.westfalen.ch