



Westfalen

Product sheet R-454B (Opteon™ XL41)

Product name	R-454B (Opteon™ XL41)
Physical state	liquefied under pressure
Chemical sign	CH ₂ F ₂ + C ₃ H ₂ F ₄
Chemical designation	R-32 (Difluormethan) + R-1234yf (2,3,3,3-Tetrafluorprop-1-en)
Purity	99,5 %
Standard	DIN 8960 / AHRI Standard
Properties	see safety data sheet
Shoulder color	flame red (RAL 3000)

Components	
R-32 Difluoromethane	68,9 wt%
R-1234yf (2,3,3,3-Tetrafluorprop-1-ene)	31,1 wt%

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

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Refrigerant R-454B T12 MFI: 9,0 kg	A06920112	steel	12,0 l	13,72 bar	9,0 kg	DIN 477 No. 1 (W 21,80 x immersion tube 1/14 LH)	
Refrigerant R-454B T61 MFI: 47,0 kg	A06920161	steel	61,0 l	13,72 bar	47,0 kg	DIN 477 No. 1 (W 21,80 x immersion tube 1/14 LH)	

Vapour pressure corresponds to 293.15 K (20°C).



Typical applications

- as a refrigerant

Physical data

operating figures	Safety group according to DIN EN 378	A2L
	Global warming potential (GWP ₁₀₀)	466
	Molar mass	62,6 g mol ⁻¹
Liquid State	Boiling Point	222,25 (-50,9) K (°C)
Critical Point	Temperature	351,25 (78,1) K (°C)
	density	443 kg m ⁻³
	Pressure	52,7 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.

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