

Thermophysical properties of refrigerants: R407C

General:	
Composition	R32/R125/R134a (23/25/52)
Family	HFC
Main application fields (in compliance with the legislation in force)	Air conditioning
Molar mass	86,2 kg/kmol

Thermophysical properties:	
Normal boiling point (at 0.1013 MPa)	-43,8°C
Critical temperature	86,1°C
Critical pression	4,63 MPa

Properties at 0°C (at saturation)*			
	Unit (SI)	Liquid	Vapour
Pressure	MPa	0,57	0,46
Specific Volume	dm ³ /kg	0,81	50,77
Specific heat capacity			
• at constant pressure	kJ/(kg K)	1,41	0,96
• at constant volume	kJ/(kg K)	0,87	0,77
Viscosity	10 ⁻⁶ Pa s	209,09	11,41
Thermal conductivity	W/(m K)	0,103	0,012
Surface tension	N/m	0,011	
Heat of vaporization	°C	5,59	
Pressure	kJ/kg	1208,9	

* These data are derived from the brochure Thermodynamic and physical Properties of R407C published by the IIR. You can order it on line.

Environmental properties:	
ODP (R11=1)	0
GWP (CO2=1)	1526

The GWP used as a reference here is the GWP of CO2 over an integration period of 100 years.

Safety Group: A1