

Physical Properties of Refrigerants

R152a

Environmental Classification	HFCs
Formula	CH ₃ CHF ₂
Molecular Weight	66,051
Boiling Point (101.3 kpa, °C)	-24.1
Freezing point (°C)	-117
Critical Pressure (kpa)	4492
Critical Temperature (°C)	113.6
Critical Density(kg/m ³)	368
Liquid Density 30°C (kg/m ³)	886.5
Vapour Density (air = 1.0)	2.4
Vapour pressure at 25°C (Bar)	5.08
Specific Heat Liquid 30 °C (KJ/Kg.K)	1.76
Specific Heat Vapor 25 °C (KJ/Kg.K)	1.051
Ozone Depletion Potential (CFC 11 -1.0)	0
Global Warming Potential (CO ₂ = 1.0)	124*
ASHRAE Standard 34 Safety Rating	A1

Pressure- Temp Chart

Temp °C	R152a psig
-30	0,77
-25	0,97
-20	1,21
-15	1,49
-10	1,82
-5	2,20
0	2,64
5	3,15
10	3,73
15	4,39
20	5,13
25	5,96
30	6,90
35	7,94
40	9,09
45	10,37
50	11,77
55	13,32
60	15,01
65	16,85

This information is believed to be accurate and reliable but is provided for guidance only.

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