

Physical Properties of Refrigerants

R142b

Enviromental Classification	HCFCs
Formula	CH 3CCIF 2
Molecular Weight	100.5
Boiling Point (101.3 kpa, °C)	-9.8
Freezing point (°C)	-103.5
Critical Pressure (kpa)	4123.1
Critical Temperature (°C)	137.1
Critical Density(kg/m3)	435
Liquid Density 30°C (kg/m3)	1096.9
Vapour Density (air = 1.0)	3.71 @ 21°C
Vapour pressure at 25°C (Bar)	298
Specific Heat Liquid 30 °C (KJ/Kg.K)	1.34
Specific Heat Vapor 25 °C (KJ/Kg.K)	0.8529
Ozone Depletion Potential (CFC 11 -1.0)	0.043
Global Warming Potential (CO2 = 1.0)	2400
ASHRAE Standard 34 Safety Rating	A2

Pressure- Temp Chart

Temp °C	R142b psig
-10	0
-5	0,22
0	0,47
5	0,75
10	1,08
15	1,46
20	1,9
25	2,38
30	2,94
35	3,55
40	4,25
45	5,02
50	5,87
55	6,81
60	7,85
70	10,23
80	13,07
90	16,4

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

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