

Physical Properties of Refrigerants

R-22

Environmental Classification	HCFC
Molecular Weight	86.5
Boiling Point (°C), 101.3KPa	-40.8
Critical Pressure (psia)	723.7
Critical Temperature (°C)	96.1
Critical Density (lb./ft ³)	32.7
Liquid Density , 30 °C, (KG / M ³)	1174.2
Vapor Density (bp, lb./ft ³)	0.294
Heat of Vaporization (bp, BTU/lb.)	100.5
Specific Heat , Liquid , 30 °C , (KJ / KG .K)	1.3
Specific Heat Vapor (1atm, 20 °F, BTU/lb. °F)	0.1573
Ozone Depletion Potential (CFC 11 -1.0)	0.05
Global Warming Potential (CO ₂ = 1.0)	1810
ASHRAE Standard 34 Safety Rating	A1

Pressure- Temp Chart

Temp °C	R-22 psig
-40.0	0.5
-37.2	2.6
-34.4	4.9
-31.7	7.4
-28.9	10.1
-26.1	13.2
-23.3	16.5
-20.6	20.1
-17.8	24.0
-15.0	28.2
-12.2	32.8
-9.4	37.7
-6.7	43.0
-3.9	48.8
-1.1	54.9
1.7	61.5
4.4	68.5
7.2	76.0
10.0	84.0
12.8	92.6
15.6	102
18.3	111
21.1	121
23.9	132
26.7	144
29.4	156
32.2	168
35.0	182
37.8	196
40.6	211
43.3	226
46.1	243
48.9	260
51.7	278
54.4	297
57.2	317
60.0	337
62.8	359
65.6	382

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

Tiba International For Refrigeration accepts no responsibility and the user assumes all risks and liability for use of this information.

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