

Physical Properties of Refrigerants

R32

Environmental Classification	HCFCs
Formula	CH ₂ F ₂
Molecular Weight	52.024
Boiling Point (101.3 kpa, °C)	-51.7
Freezing point (°C)	-136
Critical Pressure (kpa)	5816
Critical Temperature (°C)	78,35
Critical Density(kg/m ³)	0.429756
Liquid Density 30°C (kg/m ³)	0.9588
Vapour Density (air = 1.0)	1.86
Vapour pressure at 25°C (Bar)	10319
Specific Heat Liquid 30 °C (KJ/Kg.K)	1.884
Specific Heat Vapor 25 °C (KJ/Kg.K)	0.82633
Ozone Depletion Potential (CFC 11 -1.0)	0
Global Warming Potential (CO ₂ = 1.0)	675*
ASHRAE Standard 34 Safety Rating	A2

Pressure- Temp Chart

Temp °C	R-32 psig
-70	-9.46
-68	-8.77
-66	-8.02
-64	-7.19
-62	-6.27
-60	-5.27
-58	-4.17
-56	-2.98
-54	-1.67
-52	-0.26
-50	1.28
-48	2.95
-46	4.75
-44	6.69
-42	8.78
-40	11.04
-38	13.45
-36	16.05
-34	18.82
-32	21.79
-30	24.96
-28	28.34
-26	31.94
-24	35.77
-22	39.83
-20	44.15
-18	48.72
-16	53.56
-14	58.68
-12	64.09
-10	69.79
-8	75.81
-6	82.15
-4	88.82
-2	95.84
0	103.21
2	110.95
4	119.07
6	127.58
8	136.49
10	145.81
12	155.57
14	165.76
16	176.41
18	187.53
20	199.13
22	211.21
24	223.81
26	236.93
28	250.59
30	264.80
32	279.57
34	294.93
36	310.89
38	327.47
40	344.67
42	362.51
44	381.05
46	400.24
48	420.15
50	440.79
52	462.17
54	484.33
56	507.27
58	531.02
60	555.63
62	581.10
64	607.49
66	634.81
68	663.11
70	692.45

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

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