

Physical Properties of Refrigerants	R134a
Environmental Classification	HFC
Molecular Weight	102.3
Boiling Point (1atm, °F)	-14.9
Critical Pressure (psia)	588.3
Critical Temperature (°F)	213.8
Critical Density(lb./ft ³)	32
Liquid Density (20 °F,lb./ft ³)	76.2
Vapor Density (bp,lb./ft ³)	0.328
Heat of Vaporization(bp,BTU/lb.)	93.3
Specific Head Liquid(20 °F, BTU/lb. °F)	0.3366
Specific Head Vapor (1atm, 20 °F,BTU/lb. °F)	0.2021
Ozone Depletion Potential (CFC 11 -1.0)	0
Global Warming Potential (CO ₂ = 1.0)	1430
ASHRAE Standard 34 Safety Rating	A1

Pressure- Temp
Chart

Temp °C	R134a psig
-40	14.8"
-37.2	12.5"
-34.4	9.9"
-31.6	6.9"
-28.8	3.7"
-26.1	0.6
-23.3	1.9
-20.5	4
-17.7	6.5
-15	9.1
-12.2	11.9
-9.4	15
-6.6	18.4
-3.8	22.1
-1.1	26.1
1.6	30.4
4.4	35
7.2	40.1
10	45.5
12.7	51.3
15.5	57.5
18.3	64.1
21.1	71.2
23.8	78.8
26.6	86.8
29.4	95.4
32.2	104
35	114
37.7	124
40.5	135
43.3	147
46.1	159
48.8	171
51.6	185
54.4	199
57.2	214
60	229
62.7	246
65.5	263

R134a

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