

### Physical Properties of Refrigerants

### R134a

Environmental Classification	HFC
Molecular Weight	102.3
Boiling Point (°C),101.3KPa	-26.2
Critical Pressure (psia)	588.3
Critical Temperature (°C)	101.1
Critical Density(lb./ft <sup>3</sup> )	32
Liquid Density , 30 °C, ( KG / M <sup>3</sup> )	1188.1
Vapor Density (bp,lb./ft <sup>3</sup> )	0.328
Heat of Vaporization(bp,BTU/lb.)	93.3
Specific Heat , Liquid , 30 °C , ( KJ / KG .K )	1.42
Specific Head Vapor (1atm, 20 °F,BTU/lb. °F)	0.2021
Ozone Depletion Potential (CFC 11 -1.0)	0
Global Warming Potential (CO2 = 1.0)	1430
ASHRAE Standard 34 Safety Rating	A1

### Pressure- Temp Chart

Temp °C	R-134 psig
-28.9	3.7
-26.1	0.6
-23.3	1.9
-20.6	4.0
-17.8	6.5
-15.0	9.1
-12.2	11.9
-9.4	15.0
-6.7	18.4
-3.9	22.1
-1.1	26.1
1.7	30.4
4.4	35.0
7.2	40.1
10.0	45.5
12.8	51.3
15.6	57.5
18.3	64.1
21.1	71.2
23.9	78.8
26.7	86.8
29.4	95.4
32.2	104
35.0	114
37.8	124
40.6	135
43.3	147
46.1	159
48.9	171
51.7	185
54.4	199
57.2	214
60.0	229
62.8	246
65.6	263

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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