

Physical Properties of Refrigerants

R507

Environmental Classification	HFC
Molecular Weight	98.9
Boiling Point (°C), 101.3KPa	-46.7
Critical Pressure (psia)	539
Critical Temperature (°C)	70.9
Critical Density (lb./ft ³)	30.7
Liquid Density, 30 °C, (KG / M ³)	66.65
Vapor Density (bp, lb./ft ³)	0.349
Heat of Vaporization (bp, BTU/lb.)	84.35
Specific Heat, Liquid, 30 °C, (KJ / KG .K)	1.47
Specific Heat Vapor (1atm, 20 °F, BTU/lb. °F)	0.2064
Ozone Depletion Potential (CFC 11 -1.0)	0
Global Warming Potential (CO2 = 1.0)	3985
ASHRAE Standard 34 Safety Rating	A1

Pressure- Temp Chart

Temp °C	R-507 psig
-40.0	5.5
-37.2	8.2
-34.4	11.1
-31.7	14.3
-28.9	17.8
-26.1	21.7
-23.3	25.8
-20.6	30.3
-17.8	35.2
-15.0	40.5
-12.2	46.1
-9.4	52.2
-6.7	58.8
-3.9	65.8
-1.1	73.3
1.7	81.3
4.4	89.8
7.2	98.9
10.0	109
12.8	119
15.6	130
18.3	141
21.1	154
23.9	167
26.7	180
29.4	195
32.2	210
35.0	226
37.8	244
40.6	262
43.3	281
46.1	301
48.9	322
51.7	344
54.4	368
57.2	393
60.0	419
62.8	446
65.6	475

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

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