

Physical Properties of Refrigerants	R-503
Environmental Classification	HCFC
Molecular Weight	87.25
Boiling Point (1atm, °F)	-125.5
Critical Pressure (psia)	618.6
Critical Temperature (°F)	65.2
Critical Density(lb./ft ³)	34.4
Liquid Density (70 °F,lb./ft ³)	68.4
Vapor Density (bp,lb./ft ³)	0.373
Heat of Vaporization(bp,BTU/lb.)	77.1
Specific Heat Liquid(20 °F, BTU/lb. °F)	0.3671
Specific Heat Vapor (1atm, 70 °F,BTU/lb. °F)	0.1537
Ozone Depletion Potential (CFC 11 -1.0)	0.06
Global Warming Potential (CO ₂ = 1.0)	14560
ASHRAE Standard 34 Safety Rating	A1

Pressure- Temp
Chart

Temp °F	R-503 psig
-125	0.5
-120	3.1
-115	6
-110	9.3
-105	12.9
-100	16.9
-95	21.4
-90	26.3
-85	31.8
-80	36.7
-75	44.2
-70	44.2
-65	59
-60	67.3
-55	76.4
-50	86.1
-45	96.6
-40	108
-35	120
-30	133
-25	147
-20	161
-15	177
-10	194
-5	212
0	230
5	250
10	272
15	294
20	318

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