

Physical Properties of Refrigerants	R-143a
Environmental Classification	HFC
Molecular Weight	84.05
Boiling Point (1atm, °F)	-53.3
Critical Pressure (psia)	545.486
Critical Temperature (°F)	163.4
Critical Density(lb./ft ³)	26.906
Liquid Density (77°F, lb./ft ³)	0.93
Vapor Density (77°F and 1 atm, lb/ft ³)	
Heat of Vaporization(bp, BTU/lb.)	
Specific Heat Liquid(77 °F, BTU/lb. °F)	
Specific Heat Vapor (1atm, 77 °F, BTU/lb. °F)	
Ozone Depletion Potential (CFC 11 -1.0)	0
Global Warming Potential (CO ₂ = 1.0)	4470
ASHRAE Standard 34 Safety Rating	A2

Pressure- Temp
Chart

Temp °F	R-143a psig
-40	5.8
-35	8.4
-30	11.3
-25	14.4
-20	17.9
-15	21.6
-10	25.7
-5	30.1
0	34.9
5	40.1
10	45.6
15	51.6
20	58
25	64.8
30	72.1
35	80
40	88.3
45	97.2
50	106.6
55	116.6
60	127.3
65	138.5
70	150.4
75	163
80	176.3
85	190.4
90	205.1
95	220.7
100	237.1
105	254.4
110	272.5
115	291.6
120	311.6
125	332.6
130	354.7
135	377.9
140	402.2
145	427.7
150	454.6

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