

Physical Properties of Refrigerants	R-142b
Environmental Classification	HCFC
Molecular Weight	100.5
Boiling Point (1atm, °F)	14.36
Critical Pressure (psia)	601.9066
Critical Temperature (°F)	277.61
Critical Density(lb./ft <sup>3</sup> )	27.8426
Liquid Density (70 °F,lb./ft <sup>3</sup> )	74.45335
Vapor Density (bp,lb./ft <sup>3</sup> )	
Heat of Vaporization(bp,BTU/lb.)	223.248
Specific Heat Liquid( 20 °F, BTU/lb. °F)	
Specific Heat Vapor (1atm, 70 °F,BTU/lb. °F)	
Ozone Depletion Potential (CFC 11 -1.0)	0.7
Global Warming Potential (CO <sub>2</sub> = 1.0)	2310
ASHRAE Standard 34 Safety Rating	A2

Pressure- Temp  
Chart

Temp °F	R-142b psig
-40	-22.2
-35	-21
-30	-19.7
-25	-18.3
-20	-16.7
-15	-14.9
-10	-12.9
-5	-10.7
0	-8.3
5	-5.7
10	-2.8
15	0.2
20	1.9
25	3.7
30	5.7
35	7.9
40	10.2
45	12.8
50	15.6
55	18.5
60	21.7
65	25.1
70	28.8
75	32.8
80	37
85	41.5
90	46.3
95	51.4
100	56.8
105	62.6
110	68.7
115	75.2
120	82.1
125	89.4
130	97
135	105.2
140	113.7
145	122.7
150	132.1

# R-142b

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