

Pressure Temperature Charts



°F	°C	R-1234yf
-40	-40.0	11.6
-35	-37.2	9.0
-30	-34.4	5.9
-25	-31.7	2.8
-20	-28.9	0.4
-15	-26.1	2.3
-10	-23.3	4.4
-5	-20.6	6.7
0	-17.8	9.2
5	-15.0	11.9
10	-12.2	14.9
15	-9.4	18.1
20	-6.7	21.6
25	-3.9	25.4
30	-1.1	29.4
35	1.7	33.8

°F	°C	R-1234yf
40	4.4	38.4
45	7.2	43.4
50	10.0	48.8
55	12.8	54.5
60	15.6	60.6
65	18.3	67.0
70	21.1	73.9
75	23.9	81.2
80	26.7	89.0
85	29.4	97.2
90	32.2	106
95	35.0	115
100	37.8	125
105	40.6	135
110	43.3	146

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

Refrigerant Boiling Point

Refrigerant	Components	BP
R-1234yf	R-1234yf (100%) 2,3,3,3-Tetrafluoropropene	-21.1°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-1234yf	#/cu. ft.	-	80.65	76.78	72.55	67.78	62.14
	#/gal.	-	10.78	10.26	9.70	9.06	8.31

Physical Properties

	R-1234yf
Environmental Classification	HFO
Molecular Weight	114
Boiling Point (1atm,°F)	-21.1
Critical Pressure (psia)	490.6
Critical Temperature (°F)	202.5
Critical Density (lb./ft ³)	29.69
Vapor Density (bp,lb./ft ³)	0.374
Heat of Vaporization (bp,BTU/lb.)	77.53
Global Warming Potential (CO ₂ = 1.0)	4
ASHRAE Standard 34 Safety Rating	A2L