Pressure Temperature Charts

°F	°C	R-744
-40	-40.0	131.0
-35	-37.2	146.5
-30	-34.4	163.1
-25	-31.7	181.0
-20	-28.9	200.2
-15	-26.1	220.8
-10	-23.3	242.7
-5	-20.6	266.1
0	-17.8	291.0
5	-15.0	317.5
10	-12.2	345.7
15	-9.4	375.6
20	-6.7	407.2
25	-3.9	440.7
30	-1.1	476.1
35	1.7	513.4
40	4.4	552.9
45	7.2	594.5
50	10.0	638.3
55	12.8	684.5

°F	°C	R-744
60	15.6	733.1
65	18.3	784.3
70	21.1	838.1
75	23.9	894.9
80	26.7	954.9
85	29.4	1018.0

Vapor Pressure in PSIG

Refrigerant Boiling Point

Refrigerant:	Components:	BP (0 PSIG):
R-744	R-744 (100%) **CO2**	-109.2°F

Liquid Density

Refrigerant	Liquid Density:	-80°F	-40°F	0°F	40°F	80°F	87°F
R-744	lb/cu. ft.	74.8	69.7	63.8	56.2	42.6	35
	lb/gal.	10	9.3	8.5	7.5	5.7	4.7

Physical Properties

	R-744
Environmental Classification	Specialty, Natural
Molecular Weight	44.01 g/mol
Boiling Point (1atm, °F)	-126.1
Critical Pressure (psia)	1070.0
Critical Temperature (°F)	87.8
Critical Density (lb./ft^ 3)	29.2
Vapor Density (bp, lb./ft^ 3)	0.2
Liquid Heat of Vaporization (bp, BTU/lb.)	-73.1
Ozone Depletion Potential (CFC 11 - 1.0)	0
Global Warming Potential (CO2 = 1.0)	1
ASHRAE Standard 34 Safety Rating	A1

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