

Pressure Temperature Charts



°F	°C	R-601
-40	-40.0	-14.3
-35	-37.2	-14.2
-30	-34.4	-14.1
-25	-31.7	-14.0
-20	-28.9	-13.9
-15	-26.1	-13.8
-10	-23.3	-13.6
-5	-20.6	-13.4
0	-17.8	-13.2
5	-15.0	-13.0
10	-12.2	-12.7
15	-9.4	-12.4
20	-6.7	-12.1
25	-3.9	-11.7
30	-1.1	-11.3
35	1.7	-10.8
40	4.4	-10.3
45	7.2	-9.8
50	10.0	-9.2
55	12.8	-8.5

°F	°C	R-601
60	15.6	-7.7
65	18.3	-6.9
70	21.1	-6.1
75	23.9	-5.1
80	26.7	-4.1
85	29.4	-3.0
90	32.2	-1.7
95	35.0	-0.4
100	37.8	1.0
105	40.6	2.5
110	43.3	4.1
115	46.1	5.8
120	48.9	7.7
125	51.7	9.7
130	54.4	11.8
135	57.2	14.1
140	60.0	16.5
145	62.8	19.0
150	65.6	21.7

Vapor Pressure in PSIG

Refrigerant Boiling Point

Refrigerant:	Components:	BP (0 PSIG):
R-601	R-601 (>99%) n-Pentane	96.9°F

Liquid Density

Refrigerant:	Liquid Density:	-80°F	-40°F	0°F	40°F	80°F	120°F
R-601	lb/cu. ft.	43.9	42.6	41.3	40.0	38.7	37.2
	lb/gal.	5.9	5.7	5.5	5.3	5.2	5.0

Physical Properties

	R-601
Environmental Classification	Specialty, Hydrocarbon
Molecular Weight	72.15 g/mol
Boiling Point (1atm, °F)	96.9
Critical Pressure (psia)	488.4
Critical Temperature (°F)	385.8
Critical Density (lb./ft ³)	14.5
Vapor Density (bp, lb./ft ³)	0.19
Liquid Heat of Vaporization (bp, BTU/lb.)	0.0000025
Ozone Depletion Potential (CFC 11 - 1.0)	0
Global Warming Potential (CO2 = 1.0)	4
ASHRAE Standard 34 Safety Rating	A3