

Pressure Temperature Charts



°F	°C	R-14
-250	-156.7	-13.6
-245	-153.9	-13.2
-240	-151.1	-12.7
-235	-148.3	-12.0
-230	-145.6	-11.2
-225	-142.8	-10.1
-220	-140.0	-8.9
-215	-137.2	-7.4
-210	-134.4	-5.6
-205	-131.7	-3.4
-200	-128.9	-0.9
-195	-126.1	2.1
-190	-123.3	5.5
-185	-120.6	9.5
-180	-117.8	14.0
-175	-115.0	19.1
-170	-112.2	24.9
-165	-109.4	31.5
-160	-106.7	38.8
-155	-103.9	46.9

°F	°C	R-14
-150	-101.1	55.9
-145	-98.3	65.9
-140	-95.6	76.9
-135	-92.8	88.9
-130	-90.0	102.1
-125	-87.2	116.5
-120	-84.4	132.2
-115	-81.7	149.2
-110	-78.9	167.6
-105	-76.1	187.5
-100	-73.3	208.9
-95	-70.6	232.1
-90	-67.8	257.0
-85	-65.0	283.7
-80	-62.2	312.4
-75	-59.4	343.1
-70	-56.7	376.0
-65	-53.9	411.1
-60	-51.1	448.7

Vapor Pressure in PSIG

Refrigerant Boiling Point

Refrigerant:	Components:	BP (0 PSIG):
R-14	R-14 (100%) Tetrafluoromethane	-198.5°F

Liquid Density

Refrigerant:	Liquid Density:	-200°F	-175°F	-150°F	-125°F	-100°F	-80°F
R-14	lb/cu. ft.	100.4	95.6	90.4	84.6	77.7	70.6
	lb/gal.	13.4	12.8	12.1	11.3	10.4	9.4

Physical Properties

	R-14
Environmental Classification	Specialty
Molecular Weight	88.01 g/mol
Boiling Point (1atm, °F)	-198.5
Critical Pressure (psia)	543.9
Critical Temperature (°F)	-50.2
Critical Density (lb./ft ³)	39.1
Vapor Density (bp, lb./ft ³)	0.5
Liquid Heat of Vaporization (bp, BTU/lb.)	90.3
Ozone Depletion Potential (CFC 11 - 1.0)	0
Global Warming Potential (CO2 = 1.0)	6630
ASHRAE Standard 34 Safety Rating	A1