

Pressure Temperature Charts



°F	°C	R-13
-120	-84.4	4.5
-115	-81.7	0.3
-110	-78.9	2.1
-105	-76.1	4.7
-100	-73.3	7.6
-95	-70.6	10.8
-90	-67.8	14.3
-85	-65.0	18.2
-80	-62.2	22.5
-75	-59.4	27.2
-70	-56.7	32.3
-65	-53.9	37.8
-60	-51.1	43.9
-55	-48.3	50.4
-50	-45.6	57.5
-45	-42.8	65.1
-40	-40.0	73.3
-35	-37.2	82.1
-30	-34.4	91.6
-25	-31.7	102
-20	-28.9	113

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

Refrigerant Boiling Point

Refrigerant	Components	BP
R-13	R-13 (100%) Chlorotrifluoromethane	-114.3°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F
R-13	#/cu. ft.	90.2	84.1	77	67.7	48.9
	#/gal.	12.1	11.2	10.3	9.1	6.5

Physical Properties

	R-13
Environmental Classification	CFC
Molecular Weight	104.5
Boiling Point (1atm, °F)	-114.3
Critical Pressure (psia)	567.8
Critical Temperature (°F)	84.6
Critical Density (lb./ft ³)	35.9
Vapor Density (bp, lb./ft ³)	0.0432
Heat of Vaporization (bp, BTU/lb.)	64.35
Ozone Depletion Potential (CFC 11 -1.0)	1.0
Global Warming Potential (CO ₂ = 1.0)	14400
ASHRAE Standard 34 Safety Rating	A1