

Physical Properties of Refrigerants

R123

Environmental Classification	HCFC
Molecular Weight	152.9
Boiling Point (°C), 101.3KPa	82.1
Critical Pressure (psia)	531.1
Critical Temperature (°C)	362.6
Critical Density (lb./ft ³)	34.3
Liquid Density , 30 °C, (KG / M ³)	91.95
Vapor Density (bp, lb./ft ³)	0.404
Heat of Vaporization (bp, BTU/lb.)	73.2
Specific Heat , Liquid , 30 °C , (KJ / KG .K)	0.2329
Specific Head Vapor (1atm, 20 °F, BTU/lb. °F)	0.1645(sat)
Ozone Depletion Potential (CFC 11 -1.0)	0.0015
Global Warming Potential (CO ₂ = 1.0)	77
ASHRAE Standard 34 Safety Rating	B1

Pressure- Temp Chart

Temp °C	R-123 psig
-28.9	16.1
-26.1	14.1
-23.3	12.0
-20.6	9.6
-17.8	6.9
-15.0	3.9
-12.2	0.6
-9.4	1.6
-6.7	3.5
-3.9	5.7
-1.1	8.1
1.7	10.5
4.4	13.2
7.2	16.1
10.0	19.2
12.8	22.6
15.6	26.3
18.3	30.2
21.1	34.4
23.9	38.9
26.7	43.7
29.4	48.8
32.2	54.2
35.0	60.0
37.8	66.1
40.6	72.6
43.3	79.5
46.1	86.8
48.9	94.5
51.7	103
54.4	111
57.2	120
60.0	130
62.8	140
65.6	150

This information is believed to be accurate and reliable but is provided for guidance only.

Tiba International For Refrigeration accepts no responsibility and the user assumes all risks and liability for use of this information.

Tiba International For Refrigeration

Headquarter: 54 Tayaran Street – Nasr City – Cairo – Egypt.
Tel.: (+202) 22639232 Fax : (+202) 24029417

Website: www.intertiba.com

Mobile: +20 114 7905 214 / + 20 111 0004 020

E-mail: info@intertiba.com sales@intertiba.com