

### Physical Properties of Refrigerants

### R-290

Environmental Classification	HC
Molecular Weight	44.1
Boiling Point (1atm, °F)	-43.8
Critical Pressure (psia)	616.6
Critical Temperature (°F)	206.1
Critical Density (lb./ft <sup>3</sup> )	13.8
Liquid Density (70°F, lb./ft <sup>3</sup> )	31.1
Vapor Density (bp.lb./ft <sup>3</sup> )	0.1509
Heat of Vaporization (bp, BTU/lb.)	183.1
Specific Heat Liquid (70 °F, BTU/lb. °F)	0.6399
Specific Heat Vapor (1atm, 70 °F, BTU/lb. °F)	0.3988
Ozone Depletion Potential (CFC 11 = 1.0)	0
Global Warming Potential (CO2 = 1.0)	3
ASHRAE Standard 34 Safety Rating	A3

### Pressure- Temp Chart

Temp °C	R-290 psig
-40	0,12
-35	0,37
-30	0,68
-25	1,03
-20	1,44
-15	1,91
-10	2,45
-5	3,06
0	3,75
5	4,52
10	5,38
15	6,33
20	7,39
25	8,55
30	9,82
35	11,21
40	12,73
45	14,38
50	16,16
55	18,08
60	20,14
70	24,72
80	29,94
90	35,82

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.

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