

Physical Properties of Refrigerants

R408a

| | |
|--|--------|
| Environmental Classification | HCFC |
| Molecular Weight | 78 |
| Boiling Point (°C), 101.3KPa | -49.8 |
| Critical Pressure (psia) | 641.6 |
| Critical Temperature (°C) | 182 |
| Critical Density (lb./ft ³) | 30 |
| Liquid Density, 30 °C, (KG / M ³) | 66.9 |
| Vapor Density (bp, lb./ft ³) | 3.25 |
| Heat of Vaporization (bp, BTU/lb.) | 96.74 |
| Specific Heat, Liquid, 30 °C, (KJ / KG .K) | 0.36 |
| Specific Heat Vapor (1atm, 20 °F, BTU/lb. °F) | 0.1901 |
| Ozone Depletion Potential (CFC 11 -1.0) | 0.024 |
| Global Warming Potential (CO2 = 1.0) | 3152 |
| ASHRAE Standard 34 Safety Rating | A1 |

Pressure- Temp Chart

| Temp °C | R-22 psig |
|---------|-----------|
| -40.0 | 2.8 |
| -37.2 | 5.1 |
| -34.4 | 7.6 |
| -31.7 | 10.4 |
| -28.9 | 13.5 |
| -26.1 | 16.8 |
| -23.3 | 20.4 |
| -20.6 | 24.4 |
| -17.8 | 28.7 |
| -15.0 | 33.3 |
| -12.2 | 38.3 |
| -9.4 | 43.7 |
| -6.7 | 49.5 |
| -3.9 | 55.8 |
| -1.1 | 62.5 |
| 1.7 | 69.7 |
| 4.4 | 77.4 |
| 7.2 | 85.6 |
| 10.0 | 94.3 |
| 12.8 | 104 |
| 15.6 | 114 |
| 18.3 | 124 |
| 21.1 | 135 |
| 23.9 | 147 |
| 26.7 | 159 |
| 29.4 | 173 |
| 32.2 | 186 |
| 35.0 | 201 |
| 37.8 | 217 |
| 40.6 | 233 |
| 43.3 | 250 |
| 46.1 | 268 |
| 48.9 | 287 |
| 51.7 | 307 |
| 54.4 | 327 |
| 57.2 | 349 |
| 60.0 | 372 |
| 62.8 | 394 |
| 65.6 | 418 |

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.