

Pressure Temperature Charts



| °F | °C | R-124 |
|-----|-------|-------|
| -20 | -28.9 | 16.1 |
| -15 | -26.1 | 14.1 |
| -10 | -23.3 | 12 |
| -5 | -20.6 | 9.6 |
| 0 | -17.8 | 6.9 |
| 5 | -15.0 | 3.9 |
| 10 | -12.2 | 0.6 |
| 15 | -9.4 | 1.6 |
| 20 | -6.7 | 3.5 |
| 25 | -3.9 | 5.7 |
| 30 | -1.1 | 8.1 |
| 35 | 1.7 | 10.5 |
| 40 | 4.4 | 13.2 |
| 45 | 7.2 | 16.1 |
| 50 | 10.0 | 19.2 |
| 55 | 12.8 | 22.6 |
| 60 | 15.6 | 26.3 |
| 65 | 18.3 | 30.2 |

| °F | °C | R-124 |
|-----|------|-------|
| 70 | 21.1 | 34.4 |
| 75 | 23.9 | 38.9 |
| 80 | 26.7 | 43.7 |
| 85 | 29.4 | 48.8 |
| 90 | 32.2 | 54.2 |
| 95 | 35.0 | 60 |
| 100 | 37.8 | 66.1 |
| 105 | 40.6 | 72.6 |
| 110 | 43.3 | 79.5 |
| 115 | 46.1 | 86.8 |
| 120 | 48.9 | 94.5 |
| 125 | 51.7 | 103 |
| 130 | 54.4 | 111 |
| 135 | 57.2 | 120 |
| 140 | 60.0 | 130 |
| 145 | 62.8 | 140 |
| 150 | 65.6 | 150 |

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

Refrigerant Boiling Point

| Refrigerant | Components | BP |
|-------------|---|---------|
| R-124 | R-124 (100%) 1-Chloro-1,2,2,2-Tetrafluoroethane | 10.34°F |

Liquid Density

| Refrigerant | | -80°F | -40°F | 0°F | 40°F | 80°F | 120°F |
|-------------|-----------|--------|-------|-------|-------|-------|-------|
| R-124 | #/cu. ft. | 100.83 | 97.03 | 93.06 | 88.84 | 84.25 | 79.13 |
| | #/gal. | 13.48 | 12.97 | 12.44 | 11.88 | 11.26 | 10.58 |

Physical Properties

| | R-124 |
|--|---------|
| Environmental Classification | HCFC |
| Molecular Weight | 136.5 |
| Boiling Point (1atm,°F) | 10.34°F |
| Critical Pressure (psia) | 527.1 |
| Critical Temperature (°F) | 252.45 |
| Critical Density (lb./ft ³) | 34.57 |
| Vapor Density (bp,lb./ft ³) | 0.419 |
| Heat of Vaporization (bp,BTU/lb.) | 70.6 |
| Global Warming Potential (CO ₂ = 1.0) | 609 |
| ASHRAE Standard 34 Safety Rating | A1 |