

Pressure Temperature Charts



| °F | °C | R245fa |
|-----|-------|--------------|
| -40 | -40.0 | -13.9 |
| -35 | -37.2 | -13.7 |
| -30 | -34.4 | -13.5 |
| -25 | -31.7 | -13.3 |
| -20 | -28.9 | -13.0 |
| -15 | -26.1 | -12.7 |
| -10 | -23.3 | -12.4 |
| -5 | -20.6 | -12.0 |
| 0 | -17.8 | -11.5 |
| 5 | -15.0 | -11.0 |
| 10 | -12.2 | -10.4 |
| 15 | -9.4 | -9.8 |
| 20 | -6.7 | -9.1 |
| 25 | -3.9 | -8.3 |
| 30 | -1.1 | -7.4 |
| 35 | 1.7 | -6.4 |
| 40 | 4.4 | -5.3 |
| 45 | 7.2 | -4.1 |
| 50 | 10.0 | -2.8 |
| 55 | 12.8 | -1.4 |

| °F | °C | R-245fa |
|-----|------|-------------|
| 60 | 15.6 | 0.2 |
| 65 | 18.3 | 1.9 |
| 70 | 21.1 | 3.8 |
| 75 | 23.9 | 5.9 |
| 80 | 26.7 | 8.1 |
| 85 | 29.4 | 10.5 |
| 90 | 32.2 | 13.1 |
| 95 | 35.0 | 15.9 |
| 100 | 37.8 | 18.9 |
| 105 | 40.6 | 22.2 |
| 110 | 43.3 | 25.7 |
| 115 | 46.1 | 29.4 |
| 120 | 48.9 | 33.4 |
| 125 | 51.7 | 37.7 |
| 130 | 54.4 | 42.3 |
| 135 | 57.2 | 47.1 |
| 140 | 60.0 | 52.3 |
| 145 | 62.8 | 57.8 |
| 150 | 65.6 | 63.7 |

Vapor Pressure in PSIG

Refrigerant Boiling Point

| Refrigerant: | Components: | BP (0 PSIG): |
|--------------|---|--------------|
| R-245fa | R-245fa (100%) 1,1,1,3,3-Pentafluoropropane | 59.1°F |

Liquid Density

| Refrigerant: | Liquid Density: | -80°F | -40°F | 0°F | 40°F | 80°F | 120°F |
|--------------|-----------------|-------|-------|------|------|------|-------|
| R-245fa | lb/cu. ft. | 97.0 | 93.7 | 90.4 | 86.9 | 83.3 | 79.3 |
| | lb/gal. | 13.0 | 12.5 | 12.1 | 11.6 | 11.1 | 10.6 |

Physical Properties

| | R-245fa |
|--|--------------|
| Environmental Classification | HFC |
| Molecular Weight | 134.05 g/mol |
| Boiling Point (1atm, °F) | 59.1 |
| Critical Pressure (psia) | 529.5 |
| Critical Temperature (°F) | 309.0 |
| Critical Density (lb./ft ³) | 32.4 |
| Vapor Density (bp, lb./ft ³) | 0.4 |
| Liquid Heat of Vaporization (bp, BTU/lb.) | 94.3 |
| Ozone Depletion Potential (CFC 11 - 1.0) | 0 |
| Global Warming Potential (CO ₂ = 1.0) | 858 |
| ASHRAE Standard 34 Safety Rating | B1 |