# R-1234yf PT Chart

Gauge & Wire

Saturation pressure in psig. * = inches of mercury vacuum.

| °F | °C | psig | °F | °C | psig | °F | °C | psig | °F | °C | psig |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **-40** | **-40.0** | **11.6*** | 8 | -13.3 | 13.7 | 56 | 13.3 | 55.7 | 104 | 40.0 | 133.0 |
| -39 | -39.4 | 11.1* | 9 | -12.8 | 14.3 | 57 | 13.9 | 56.9 | 105 | 40.6 | 135.1 |
| -38 | -38.9 | 10.5* | **10** | **-12.2** | **14.9** | 58 | 14.4 | 58.1 | 106 | 41.1 | 137.2 |
| -37 | -38.3 | 10.0* | 11 | -11.7 | 15.5 | 59 | 15.0 | 59.3 | 107 | 41.7 | 139.4 |
| -36 | -37.8 | 9.5* | 12 | -11.1 | 16.2 | **60** | **15.6** | **60.6** | 108 | 42.2 | 141.5 |
| -35 | -37.2 | 8.9* | 13 | -10.6 | 16.8 | 61 | 16.1 | 61.8 | 109 | 42.8 | 143.7 |
| -34 | -36.7 | 8.4* | 14 | -10.0 | 17.5 | 62 | 16.7 | 63.1 | **110** | **43.3** | **145.9** |
| -33 | -36.1 | 7.8* | 15 | -9.4 | 18.1 | 63 | 17.2 | 64.4 | 111 | 43.9 | 148.1 |
| -32 | -35.6 | 7.2* | 16 | -8.9 | 18.8 | 64 | 17.8 | 65.7 | 112 | 44.4 | 150.4 |
| -31 | -35.0 | 6.6* | 17 | -8.3 | 19.5 | 65 | 18.3 | 67.1 | 113 | 45.0 | 152.7 |
| **-30** | **-34.4** | **6.0*** | 18 | -7.8 | 20.2 | 66 | 18.9 | 68.4 | 114 | 45.6 | 155.0 |
| -29 | -33.9 | 5.4* | 19 | -7.2 | 20.9 | 67 | 19.4 | 69.8 | 115 | 46.1 | 157.3 |
| -28 | -33.3 | 4.8* | **20** | **-6.7** | **21.6** | 68 | 20.0 | 71.1 | 116 | 46.7 | 159.6 |
| -27 | -32.8 | 4.1* | 21 | -6.1 | 22.3 | 69 | 20.6 | 72.5 | 117 | 47.2 | 162.0 |
| -26 | -32.2 | 3.5* | 22 | -5.6 | 23.1 | **70** | **21.1** | **73.9** | 118 | 47.8 | 164.4 |
| -25 | -31.7 | 2.8* | 23 | -5.0 | 23.8 | 71 | 21.7 | 75.4 | 119 | 48.3 | 166.8 |
| -24 | -31.1 | 2.1* | 24 | -4.4 | 24.6 | 72 | 22.2 | 76.8 | **120** | **48.9** | **169.2** |
| -23 | -30.6 | 1.4* | 25 | -3.9 | 25.4 | 73 | 22.8 | 78.3 | 121 | 49.4 | 171.7 |
| -22 | -30.0 | 0.7* | 26 | -3.3 | 26.2 | 74 | 23.3 | 79.8 | 122 | 50.0 | 174.2 |
| -21 | -29.4 | 0.0 | 27 | -2.8 | 27.0 | 75 | 23.9 | 81.3 | 123 | 50.6 | 176.7 |
| **-20** | **-28.9** | **0.4** | 28 | -2.2 | 27.8 | 76 | 24.4 | 82.8 | 124 | 51.1 | 179.2 |
| -19 | -28.3 | 0.7 | 29 | -1.7 | 28.6 | 77 | 25.0 | 84.3 | 125 | 51.7 | 181.8 |
| -18 | -27.8 | 1.1 | **30** | **-1.1** | **29.4** | 78 | 25.6 | 85.9 | 126 | 52.2 | 184.4 |
| -17 | -27.2 | 1.5 | 31 | -0.6 | 30.3 | 79 | 26.1 | 87.4 | 127 | 52.8 | 187.0 |
| -16 | -26.7 | 1.9 | 32 | 0.0 | 31.1 | **80** | **26.7** | **89.0** | 128 | 53.3 | 189.7 |
| -15 | -26.1 | 2.3 | 33 | 0.6 | 32.0 | 81 | 27.2 | 90.6 | 129 | 53.9 | 192.3 |
| -14 | -25.6 | 2.7 | 34 | 1.1 | 32.9 | 82 | 27.8 | 92.3 | **130** | **54.4** | **195.0** |
| -13 | -25.0 | 3.1 | 35 | 1.7 | 33.8 | 83 | 28.3 | 93.9 | 131 | 55.0 | 197.7 |
| -12 | -24.4 | 3.5 | 36 | 2.2 | 34.7 | 84 | 28.9 | 95.6 | 132 | 55.6 | 200.5 |
| -11 | -23.9 | 4.0 | 37 | 2.8 | 35.6 | 85 | 29.4 | 97.3 | 133 | 56.1 | 203.3 |
| **-10** | **-23.3** | **4.4** | 38 | 3.3 | 36.5 | 86 | 30.0 | 99.0 | 134 | 56.7 | 206.1 |
| -9 | -22.8 | 4.8 | 39 | 3.9 | 37.5 | 87 | 30.6 | 100.7 | 135 | 57.2 | 208.9 |
| -8 | -22.2 | 5.3 | **40** | **4.4** | **38.4** | 88 | 31.1 | 102.4 | 136 | 57.8 | 211.7 |
| -7 | -21.7 | 5.8 | 41 | 5.0 | 39.4 | 89 | 31.7 | 104.2 | 137 | 58.3 | 214.6 |
| -6 | -21.1 | 6.2 | 42 | 5.6 | 40.4 | **90** | **32.2** | **106.0** | 138 | 58.9 | 217.5 |
| -5 | -20.6 | 6.7 | 43 | 6.1 | 41.4 | 91 | 32.8 | 107.8 | 139 | 59.4 | 220.5 |
| -4 | -20.0 | 7.2 | 44 | 6.7 | 42.4 | 92 | 33.3 | 109.6 | **140** | **60.0** | **223.4** |
| -3 | -19.4 | 7.7 | 45 | 7.2 | 43.4 | 93 | 33.9 | 111.4 | 141 | 60.6 | 226.4 |
| -2 | -18.9 | 8.2 | 46 | 7.8 | 44.5 | 94 | 34.4 | 113.3 | 142 | 61.1 | 229.4 |
| -1 | -18.3 | 8.7 | 47 | 8.3 | 45.5 | 95 | 35.0 | 115.2 | 143 | 61.7 | 232.5 |
| **0** | **-17.8** | **9.2** | 48 | 8.9 | 46.6 | 96 | 35.6 | 117.1 | 144 | 62.2 | 235.6 |
| 1 | -17.2 | 9.7 | 49 | 9.4 | 47.7 | 97 | 36.1 | 119.0 | 145 | 62.8 | 238.7 |
| 2 | -16.7 | 10.3 | **50** | **10.0** | **48.8** | 98 | 36.7 | 120.9 | 146 | 63.3 | 241.8 |
| 3 | -16.1 | 10.8 | 51 | 10.6 | 49.9 | 99 | 37.2 | 122.9 | 147 | 63.9 | 245.0 |
| 4 | -15.6 | 11.4 | 52 | 11.1 | 51.0 | **100** | **37.8** | **124.9** | 148 | 64.4 | 248.2 |
| 5 | -15.0 | 11.9 | 53 | 11.7 | 52.2 | 101 | 38.3 | 126.9 | 149 | 65.0 | 251.4 |
| 6 | -14.4 | 12.5 | 54 | 12.2 | 53.3 | 102 | 38.9 | 128.9 | **150** | **65.6** | **254.7** |
| 7 | -13.9 | 13.1 | 55 | 12.8 | 54.5 | 103 | 39.4 | 131.0 | | | |

Source: calculated with CoolProp 8.1.0 (reference equation of state).
Checked against: Hudson Technologies (max difference 0.13 psi).
Gauge pressure relative to 14.696 psia (sea level). Reference only: follow the equipment manufacturer's charging instructions.