ARKEMA
INNOVATIVE CHEMISTRY

FORANE® REFRIGERANTS BY ARKEMA

# Saturation Pressure-Temperature Data for R-407C (psig)*

| Temp. (°F) | Pressure Liquid | Pressure Vapor | Temp. (°C) | Temp. (°F) | Pressure Liquid | Pressure Vapor | Temp. (°C) | Temp. (°F) | Pressure Liquid | Pressure Vapor | Temp. (°C) | Temp. (°F) | Pressure Liquid | Pressure Vapor | Temp. (°C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -49 | *1.9* | *10.4* | -45.0 | 1 | 30.4 | 20.2 | -17.2 | 51 | 99.8 | 80.5 | 10.6 | 101 | 228.8 | 199.3 | 38.3 |
| -48 | *1.2* | *9.8* | -44.4 | 2 | 31.4 | 21.0 | -16.7 | 52 | 101.7 | 82.2 | 11.1 | 102 | 232.2 | 202.4 | 38.9 |
| -47 | *0.4* | *9.2* | -43.9 | 3 | 32.3 | 21.8 | -16.1 | 53 | 103.7 | 84.0 | 11.7 | 103 | 235.6 | 205.6 | 39.4 |
| -46 | 0.2 | *8.6* | -43.3 | 4 | 33.3 | 22.6 | -15.6 | 54 | 105.6 | 85.7 | 12.2 | 104 | 239.0 | 208.9 | 40.0 |
| -45 | 0.6 | *8.0* | -42.8 | 5 | 34.3 | 23.5 | -15.0 | 55 | 107.6 | 87.5 | 12.8 | 105 | 242.4 | 212.1 | 40.6 |
| -44 | 1.0 | *7.3* | -42.2 | 6 | 35.3 | 24.3 | -14.4 | 56 | 109.6 | 89.3 | 13.3 | 106 | 245.9 | 215.4 | 41.1 |
| -43 | 1.4 | *6.7* | -41.7 | 7 | 36.4 | 25.2 | -13.9 | 57 | 111.7 | 91.2 | 13.9 | 107 | 249.5 | 218.8 | 41.7 |
| -42 | 1.9 | *6.0* | -41.1 | 8 | 37.4 | 26.1 | -13.3 | 58 | 113.7 | 93.0 | 14.4 | 108 | 253.0 | 222.2 | 42.2 |
| -41 | 2.3 | *5.3* | -40.6 | 9 | 38.5 | 27.0 | -12.8 | 59 | 115.8 | 94.9 | 15.0 | 109 | 256.6 | 225.6 | 42.8 |
| -40 | 2.7 | *4.6* | -40.0 | 10 | 39.5 | 27.9 | -12.2 | 60 | 118.0 | 96.8 | 15.6 | 110 | 260.3 | 229.0 | 43.3 |
| -39 | 3.2 | *3.9* | -39.4 | 11 | 40.6 | 28.8 | -11.7 | 61 | 120.1 | 98.7 | 16.1 | 111 | 263.9 | 232.5 | 43.9 |
| -38 | 3.7 | *3.2* | -38.9 | 12 | 41.7 | 29.8 | -11.1 | 62 | 122.3 | 100.7 | 16.7 | 112 | 267.6 | 236.1 | 44.4 |
| -37 | 4.1 | *2.4* | -38.3 | 13 | 42.9 | 30.7 | -10.6 | 63 | 124.4 | 102.7 | 17.2 | 113 | 271.4 | 239.7 | 45.0 |
| -36 | 4.6 | *1.6* | -37.8 | 14 | 44.0 | 31.7 | -10.0 | 64 | 126.7 | 104.7 | 17.8 | 114 | 275.1 | 243.3 | 45.6 |
| -35 | 5.1 | *0.9* | -37.2 | 15 | 45.2 | 32.7 | -9.4 | 65 | 128.9 | 106.7 | 18.3 | 115 | 279.0 | 246.9 | 46.1 |
| -34 | 5.6 | *0.1* | -36.7 | 16 | 46.3 | 33.7 | -8.9 | 66 | 131.2 | 108.8 | 18.9 | 116 | 282.8 | 250.6 | 46.7 |
| -33 | 6.1 | 0.4 | -36.1 | 17 | 47.5 | 34.7 | -8.3 | 67 | 133.5 | 110.9 | 19.4 | 117 | 286.7 | 254.3 | 47.2 |
| -32 | 6.6 | 0.8 | -35.6 | 18 | 48.7 | 35.7 | -7.8 | 68 | 135.8 | 113.0 | 20.0 | 118 | 290.6 | 258.1 | 47.8 |
| -31 | 7.2 | 1.2 | -35.0 | 19 | 50.0 | 36.8 | -7.2 | 69 | 138.2 | 115.1 | 20.6 | 119 | 294.6 | 261.9 | 48.3 |
| -30 | 7.7 | 1.6 | -34.4 | 20 | 51.2 | 37.9 | -6.7 | 70 | 140.5 | 117.3 | 21.1 | 120 | 298.6 | 265.8 | 48.9 |
| -29 | 8.3 | 2.1 | -33.9 | 21 | 52.5 | 39.0 | -6.1 | 71 | 142.9 | 119.5 | 21.7 | 121 | 302.6 | 269.7 | 49.4 |
| -28 | 8.8 | 2.5 | -33.3 | 22 | 53.8 | 40.1 | -5.6 | 72 | 145.4 | 121.7 | 22.2 | 122 | 306.7 | 273.6 | 50.0 |
| -27 | 9.4 | 3.0 | -32.8 | 23 | 55.1 | 41.2 | -5.0 | 73 | 147.8 | 124.0 | 22.8 | 123 | 310.8 | 277.6 | 50.6 |
| -26 | 10.0 | 3.5 | -32.2 | 24 | 56.4 | 42.3 | -4.4 | 74 | 150.3 | 126.2 | 23.3 | 124 | 315.0 | 281.6 | 51.1 |
| -25 | 10.6 | 3.9 | -31.7 | 25 | 57.7 | 43.5 | -3.9 | 75 | 152.8 | 128.6 | 23.9 | 125 | 319.2 | 285.7 | 51.7 |
| -24 | 11.2 | 4.4 | -31.1 | 26 | 59.1 | 44.7 | -3.3 | 76 | 155.4 | 130.9 | 24.4 | 126 | 323.4 | 289.8 | 52.2 |
| -23 | 11.8 | 4.9 | -30.6 | 27 | 60.5 | 45.9 | -2.8 | 77 | 158.0 | 133.3 | 25.0 | 127 | 327.7 | 293.9 | 52.8 |
| -22 | 12.4 | 5.4 | -30.0 | 28 | 61.9 | 47.1 | -2.2 | 78 | 160.6 | 135.6 | 25.6 | 128 | 332.0 | 298.1 | 53.3 |
| -21 | 13.1 | 5.9 | -29.4 | 29 | 63.3 | 48.3 | -1.7 | 79 | 163.2 | 138.1 | 26.1 | 129 | 336.4 | 302.4 | 53.9 |
| -20 | 13.7 | 6.5 | -28.9 | 30 | 64.7 | 49.6 | -1.1 | 80 | 165.8 | 140.5 | 26.7 | 130 | 340.7 | 306.7 | 54.4 |
| -19 | 14.4 | 7.0 | -28.3 | 31 | 66.2 | 50.8 | -0.6 | 81 | 168.5 | 143.0 | 27.2 | 131 | 345.2 | 311.0 | 55.0 |
| -18 | 15.1 | 7.6 | -27.8 | 32 | 67.7 | 52.1 | 0.0 | 82 | 171.3 | 145.5 | 27.8 | 132 | 349.7 | 315.4 | 55.6 |
| -17 | 15.8 | 8.1 | -27.2 | 33 | 69.2 | 53.4 | 0.6 | 83 | 174.0 | 148.1 | 28.3 | 133 | 354.2 | 319.8 | 56.1 |
| -16 | 16.5 | 8.7 | -26.7 | 34 | 70.7 | 54.8 | 1.1 | 84 | 176.8 | 150.6 | 28.9 | 134 | 358.7 | 324.2 | 56.7 |
| -15 | 17.2 | 9.3 | -26.1 | 35 | 72.2 | 56.1 | 1.7 | 85 | 179.6 | 153.2 | 29.4 | 135 | 363.3 | 328.8 | 57.2 |
| -14 | 17.9 | 9.9 | -25.6 | 36 | 73.8 | 57.5 | 2.2 | 86 | 182.4 | 155.9 | 30.0 | 136 | 368.0 | 333.3 | 57.8 |
| -13 | 18.7 | 10.5 | -25.0 | 37 | 75.4 | 58.9 | 2.8 | 87 | 185.3 | 158.5 | 30.6 | 137 | 372.7 | 337.9 | 58.3 |
| -12 | 19.4 | 11.1 | -24.4 | 38 | 77.0 | 60.3 | 3.3 | 88 | 188.2 | 161.2 | 31.1 | 138 | 377.4 | 342.6 | 58.9 |
| -11 | 20.2 | 11.7 | -23.9 | 39 | 78.6 | 61.7 | 3.9 | 89 | 191.1 | 163.9 | 31.7 | 139 | 382.1 | 347.3 | 59.4 |
| -10 | 20.9 | 12.3 | -23.3 | 40 | 80.2 | 63.2 | 4.4 | 90 | 194.1 | 166.7 | 32.2 | 140 | 387.0 | 352.1 | 60.0 |
| -9 | 21.7 | 13.0 | -22.8 | 41 | 81.9 | 64.6 | 5.0 | 91 | 197.1 | 169.5 | 32.8 | 141 | 391.8 | 356.9 | 60.6 |
| -8 | 22.5 | 13.7 | -22.2 | 42 | 83.6 | 66.1 | 5.6 | 92 | 200.1 | 172.3 | 33.3 | 142 | 396.7 | 361.7 | 61.1 |
| -7 | 23.4 | 14.3 | -21.7 | 43 | 85.3 | 67.6 | 6.1 | 93 | 203.2 | 175.2 | 33.9 | 143 | 401.6 | 366.6 | 61.7 |
| -6 | 24.2 | 15.0 | -21.1 | 44 | 87.0 | 69.2 | 6.7 | 94 | 206.3 | 178.1 | 34.4 | 144 | 406.6 | 371.6 | 62.2 |
| -5 | 25.0 | 15.7 | -20.6 | 45 | 88.8 | 70.7 | 7.2 | 95 | 209.4 | 181.0 | 35.0 | 145 | 411.7 | 376.6 | 62.8 |
| -4 | 25.9 | 16.4 | -20.0 | 46 | 90.6 | 72.3 | 7.8 | 96 | 212.5 | 184.0 | 35.6 | 146 | 416.7 | 381.7 | 63.3 |
| -3 | 26.8 | 17.2 | -19.4 | 47 | 92.4 | 73.9 | 8.3 | 97 | 215.7 | 186.9 | 36.1 | 147 | 421.9 | 386.8 | 63.9 |
| -2 | 27.7 | 17.9 | -18.9 | 48 | 94.2 | 75.5 | 8.9 | 98 | 219.0 | 190.0 | 36.7 | 148 | 427.0 | 392.0 | 64.4 |
| -1 | 28.6 | 18.7 | -18.3 | 49 | 96.0 | 77.2 | 9.4 | 99 | 222.2 | 193.0 | 37.2 | 149 | 432.2 | 397.2 | 65.0 |
| 0 | 29.5 | 19.4 | -17.8 | 50 | 97.9 | 78.8 | 10.0 | 100 | 225.5 | 196.1 | 37.8 | 150 | 437.5 | 402.5 | 65.6 |

**Red Italics Indicate Inches of Mercury Below Atmospheric Pressure*

This data was generated using the NIST REFPROP Database

(Lemmon, E.W., Huber, M.L., McLinden, M.O. NIST Standard Reference Database 23: Reference Fluid Thermodynamic and Transport Properties-REFPROP, Version 9.0, National Institute of Standards and Technology, Standard Reference Data Program, Gaithersburg, 2010)