

Creard R-455A



REFRIGERANTS

Creard R-455A

Informace o produktu

Popis výrobku

Creard R-455A je chladivo třídy A2L s nízkým GWP určené k použití při nízkých a středních teplotách, v aplikacích, při kterých se dříve používala chladiva R-404A nebo R-507.

- Zeotropní chladivo obsahující CO₂ / R-32 / R-1234yf (3,0 / 21,5 / 75,5 hm. %)
- Chladivo musí být doplňováno z kapalně fáze
- Srovnatelné tepelné a fyzikální vlastnosti jako u chladiv R-404A / R-507 a R-22
- Nízký profil hořlavosti, netoxický
- GWP100 nižší než 150
- Kompresory musí být naplněny oleji na bázi POE

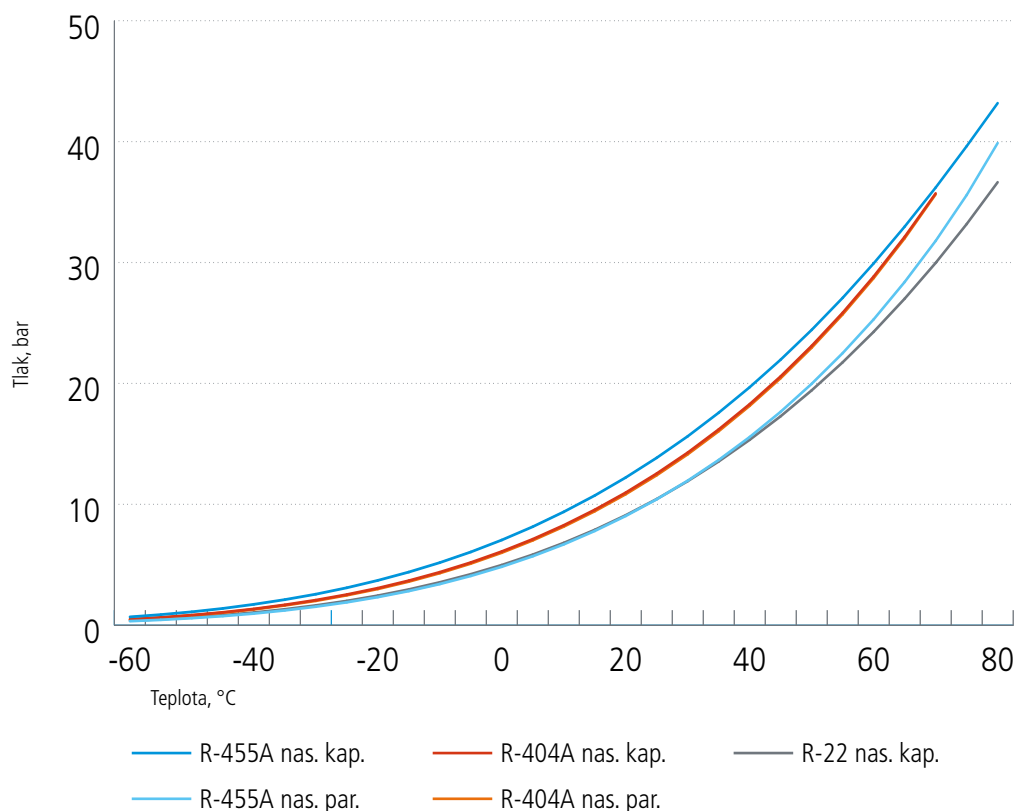
Použití

- Dlouhodobá náhrada za R-404A / R-507 a R-22
- Chladírenské jednotky
- Multiplexní systémy a vitríny pro supermarkety
- Stroje na výrobu ledu
- Transportní chlazení
- Kondenzační jednotky, chladicí zařízení

Environmentální aspekty

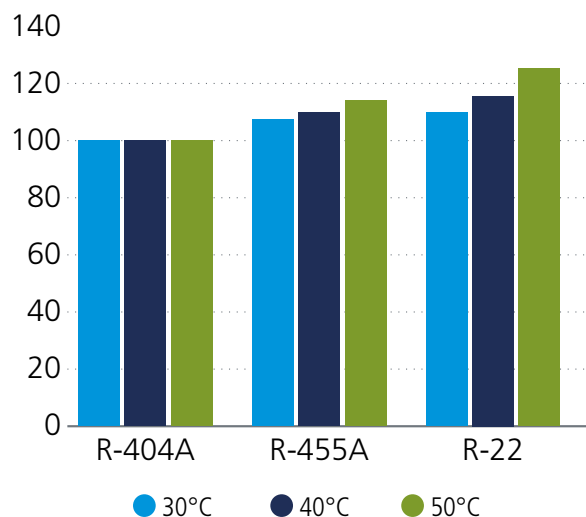
- R-455A je zeotropní směs sestávající z CO₂ / R-32 / R-1234yf.
- Je určena jako chladivo s nízkým GWP pro použití při nízkých a středně vysokých teplotách.
- Vzhledem k nízkému GWP splňuje přísné požadavky mezinárodních předpisů.

Rozsah aplikací

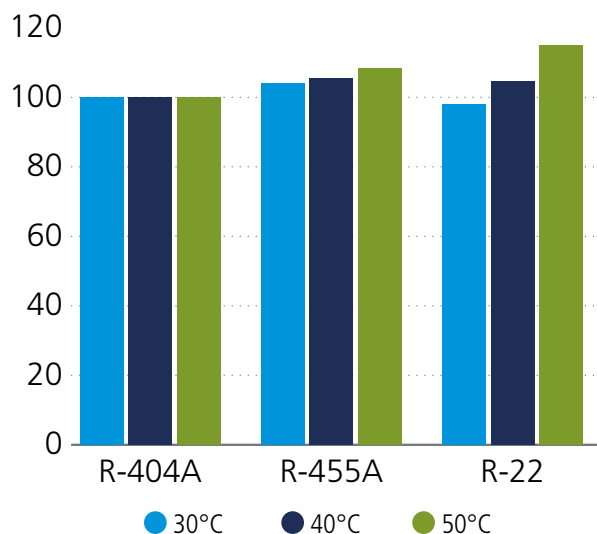


Teoretický výkon¹

COP



Kapacita



¹ Simulace cyklu podmínek: Refprop 10.0
 $t_o = -30^\circ\text{C}$, $T_{\text{superheat}} = 10\text{K}$, $T_{\text{subc}} = 2\text{K}$, $\text{isv} = f(p_o/p_e)$

Fyzikální vlastnosti

| | | |
|----------------------------------|--|---|
| Chemický název | | Carbon Dioxide / Difluoromethane / 2,3,3,3 Tetrafluoropropene |
| Chemický vzorec | | $\text{CO}_2 / \text{CH}_2\text{F}_2 / \text{CH}_2=\text{CF}_3$ |
| Molekulová hmotnost | kg/kmol | 87.5 |
| PRG ₁₀₀ | IPCC 4 th AR / 5 th AR | 148 / 146 |
| Bod varu při 1,013 bar | | |
| Teplota po átku varu / rosný bod | °C | -52.0 / -39.2 |
| Kritická teplota | °C | 85.6 |
| Kritický tla | bar | 46.5 |
| Kritická hustota | kg/m ³ | 454.0 |
| Kritický objem | dm ³ /kg | 2.198 |
| Hustota kapaliny ² | kg/m ³ | 1033.4 |
| Hustota páry ² | kg/m ³ | 45.6 |
| Tepl. vypařování ² | kJ/kg | 167.9 |
| c_p kap. | kJ/(kg K) | 1.567 |
| c_p par. | kJ/(kg K) | 1.136 |
| Tepl. klouzáni při NBP | K | 12.8 |
| ASHRAE 34 bezpe nostní třída | | A2L |

Balení

| | |
|-------------------------|-------------------------|
| Typ | Vratná ocelová nádoba |
| Velikost | 859 x 2230 (h x d) |
| Objem | 930 l |
| Tára | ~ 500 kg |
| Čistá hmotnost | 750 kg |
| Připojky | Ventil DIN4676, W 1-1/4 |
| Jiné balení na vyžádání | |

² Simulace cyklu podmínek:
 $t_o = -30^\circ\text{C}$, $t_c = \text{variable}$, $T_{\text{superheat}} = 10\text{K}$, $T_{\text{subc}} = 2\text{K}$, $\text{isent. eff.} = f(p_o/p_e)$

Tabulka mokrého vypařování Creard R-455A*

| t. | p' | p'' | v' | v'' | rho' | rho'' | h' | h'' | r | s' | s'' |
|-----|-------|-------|---------------------|---------------------|-------------------|-------------------|--------|--------|--------|---------|---------|
| °C | bar | bar | dm ³ /kg | dm ³ /kg | kg/m ³ | kg/m ³ | kJ/kg | kJ/kg | kJ/kg | kJ/kg K | kJ/kg K |
| -60 | 0.686 | 0.336 | 0.762 | 591.76 | 1311.61 | 1.69 | 119.63 | 355.98 | 236.36 | 0.6707 | 1.8083 |
| -59 | 0.721 | 0.356 | 0.764 | 560.15 | 1308.90 | 1.79 | 120.90 | 356.62 | 235.73 | 0.6767 | 1.8058 |
| -58 | 0.758 | 0.378 | 0.766 | 530.55 | 1306.18 | 1.88 | 122.17 | 357.27 | 235.10 | 0.6826 | 1.8034 |
| -57 | 0.797 | 0.400 | 0.767 | 502.80 | 1303.45 | 1.99 | 123.44 | 357.91 | 234.47 | 0.6885 | 1.8010 |
| -56 | 0.837 | 0.423 | 0.769 | 476.78 | 1300.71 | 2.10 | 124.72 | 358.55 | 233.83 | 0.6943 | 1.7987 |
| -55 | 0.879 | 0.448 | 0.770 | 452.36 | 1297.96 | 2.21 | 125.99 | 359.19 | 233.20 | 0.7002 | 1.7964 |
| -54 | 0.923 | 0.473 | 0.772 | 429.43 | 1295.20 | 2.33 | 127.27 | 359.83 | 232.56 | 0.7060 | 1.7941 |
| -53 | 0.968 | 0.500 | 0.774 | 407.88 | 1292.43 | 2.45 | 128.55 | 360.47 | 231.92 | 0.7118 | 1.7919 |
| -52 | 1.014 | 0.528 | 0.775 | 387.62 | 1289.66 | 2.58 | 129.83 | 361.11 | 231.28 | 0.7176 | 1.7898 |
| -51 | 1.063 | 0.558 | 0.777 | 368.56 | 1286.87 | 2.71 | 131.11 | 361.75 | 230.64 | 0.7234 | 1.7877 |
| -50 | 1.113 | 0.588 | 0.779 | 350.62 | 1284.08 | 2.85 | 132.40 | 362.39 | 229.99 | 0.7291 | 1.7856 |
| -49 | 1.166 | 0.620 | 0.780 | 333.72 | 1281.27 | 3.00 | 133.68 | 363.02 | 229.34 | 0.7348 | 1.7836 |
| -48 | 1.220 | 0.653 | 0.782 | 317.79 | 1278.46 | 3.15 | 134.97 | 363.66 | 228.69 | 0.7406 | 1.7816 |
| -47 | 1.276 | 0.688 | 0.784 | 302.77 | 1275.64 | 3.30 | 136.26 | 364.30 | 228.04 | 0.7463 | 1.7797 |
| -46 | 1.334 | 0.724 | 0.786 | 288.60 | 1272.80 | 3.47 | 137.55 | 364.93 | 227.38 | 0.7520 | 1.7778 |
| -45 | 1.394 | 0.762 | 0.787 | 275.22 | 1269.96 | 3.63 | 138.85 | 365.57 | 226.72 | 0.7576 | 1.7759 |
| -44 | 1.456 | 0.801 | 0.789 | 262.59 | 1267.10 | 3.81 | 140.15 | 366.20 | 226.06 | 0.7633 | 1.7741 |
| -43 | 1.520 | 0.842 | 0.791 | 250.65 | 1264.24 | 3.99 | 141.45 | 366.84 | 225.39 | 0.7689 | 1.7723 |
| -42 | 1.587 | 0.884 | 0.793 | 239.36 | 1261.36 | 4.18 | 142.75 | 367.47 | 224.73 | 0.7745 | 1.7705 |
| -41 | 1.656 | 0.928 | 0.795 | 228.68 | 1258.48 | 4.37 | 144.05 | 368.10 | 224.05 | 0.7801 | 1.7688 |
| -40 | 1.727 | 0.974 | 0.796 | 218.57 | 1255.58 | 4.58 | 145.36 | 368.74 | 223.38 | 0.7857 | 1.7671 |
| -39 | 1.800 | 1.022 | 0.798 | 208.99 | 1252.67 | 4.78 | 146.67 | 369.37 | 222.70 | 0.7913 | 1.7654 |
| -38 | 1.876 | 1.071 | 0.800 | 199.92 | 1249.76 | 5.00 | 147.98 | 370.00 | 222.02 | 0.7969 | 1.7638 |
| -37 | 1.954 | 1.122 | 0.802 | 191.32 | 1246.83 | 5.23 | 149.29 | 370.63 | 221.34 | 0.8024 | 1.7622 |
| -36 | 2.035 | 1.176 | 0.804 | 183.17 | 1243.89 | 5.46 | 150.61 | 371.25 | 220.65 | 0.8079 | 1.7607 |
| -35 | 2.118 | 1.231 | 0.806 | 175.43 | 1240.94 | 5.70 | 151.92 | 371.88 | 219.95 | 0.8135 | 1.7591 |
| -34 | 2.204 | 1.288 | 0.808 | 168.09 | 1237.97 | 5.95 | 153.25 | 372.50 | 219.26 | 0.8190 | 1.7576 |
| -33 | 2.292 | 1.347 | 0.810 | 161.11 | 1235.00 | 6.21 | 154.57 | 373.13 | 218.56 | 0.8245 | 1.7562 |
| -32 | 2.383 | 1.409 | 0.812 | 154.48 | 1232.01 | 6.47 | 155.90 | 373.75 | 217.86 | 0.8299 | 1.7547 |
| -31 | 2.477 | 1.472 | 0.814 | 148.18 | 1229.01 | 6.75 | 157.23 | 374.37 | 217.15 | 0.8354 | 1.7533 |
| -30 | 2.574 | 1.538 | 0.816 | 142.19 | 1226.00 | 7.03 | 158.56 | 374.99 | 216.44 | 0.8409 | 1.7519 |
| -29 | 2.673 | 1.606 | 0.818 | 136.49 | 1222.97 | 7.33 | 159.89 | 375.61 | 215.72 | 0.8463 | 1.7506 |
| -28 | 2.776 | 1.677 | 0.820 | 131.06 | 1219.94 | 7.63 | 161.23 | 376.23 | 215.00 | 0.8517 | 1.7493 |
| -27 | 2.881 | 1.750 | 0.822 | 125.90 | 1216.89 | 7.94 | 162.57 | 376.85 | 214.28 | 0.8572 | 1.7480 |
| -26 | 2.989 | 1.825 | 0.824 | 120.97 | 1213.82 | 8.27 | 163.91 | 377.46 | 213.55 | 0.8626 | 1.7467 |

| t | p' | p'' | v' | v'' | rho' | rho'' | h' | h'' | r | s' | s'' |
|-----|-------|-------|---------------------|---------------------|-------------------|-------------------|--------|--------|--------|---------|---------|
| °C | bar | bar | dm ³ /kg | dm ³ /kg | kg/m ³ | kg/m ³ | kJ/kg | kJ/kg | kJ/kg | kJ/kg K | kJ/kg K |
| -25 | 3.101 | 1.903 | 0.826 | 116.28 | 1210.75 | 8.60 | 165.26 | 378.07 | 212.81 | 0.8680 | 1.7454 |
| -24 | 3.216 | 1.983 | 0.828 | 111.81 | 1207.66 | 8.94 | 166.61 | 378.68 | 212.07 | 0.8734 | 1.7442 |
| -23 | 3.333 | 2.066 | 0.830 | 107.54 | 1204.55 | 9.30 | 167.96 | 379.29 | 211.33 | 0.8787 | 1.7430 |
| -22 | 3.454 | 2.152 | 0.832 | 103.47 | 1201.44 | 9.66 | 169.32 | 379.90 | 210.58 | 0.8841 | 1.7418 |
| -21 | 3.579 | 2.241 | 0.835 | 99.59 | 1198.31 | 10.04 | 170.68 | 380.51 | 209.83 | 0.8895 | 1.7407 |
| -20 | 3.706 | 2.332 | 0.837 | 95.88 | 1195.16 | 10.43 | 172.04 | 381.11 | 209.07 | 0.8948 | 1.7395 |
| -19 | 3.837 | 2.426 | 0.839 | 92.33 | 1192.00 | 10.83 | 173.40 | 381.72 | 208.31 | 0.9002 | 1.7384 |
| -18 | 3.972 | 2.523 | 0.841 | 88.94 | 1188.82 | 11.24 | 174.77 | 382.32 | 207.54 | 0.9055 | 1.7373 |
| -17 | 4.110 | 2.623 | 0.843 | 85.70 | 1185.63 | 11.67 | 176.14 | 382.91 | 206.77 | 0.9108 | 1.7362 |
| -16 | 4.251 | 2.726 | 0.846 | 82.61 | 1182.43 | 12.11 | 177.52 | 383.51 | 205.99 | 0.9161 | 1.7352 |
| -15 | 4.397 | 2.832 | 0.848 | 79.64 | 1179.21 | 12.56 | 178.90 | 384.10 | 205.21 | 0.9214 | 1.7341 |
| -14 | 4.545 | 2.942 | 0.850 | 76.81 | 1175.97 | 13.02 | 180.28 | 384.70 | 204.42 | 0.9267 | 1.7331 |
| -13 | 4.698 | 3.054 | 0.853 | 74.09 | 1172.72 | 13.50 | 181.66 | 385.29 | 203.62 | 0.9320 | 1.7321 |
| -12 | 4.855 | 3.170 | 0.855 | 71.49 | 1169.44 | 13.99 | 183.05 | 385.87 | 202.82 | 0.9373 | 1.7311 |
| -11 | 5.015 | 3.290 | 0.858 | 69.00 | 1166.16 | 14.49 | 184.44 | 386.46 | 202.02 | 0.9425 | 1.7302 |
| -10 | 5.179 | 3.412 | 0.860 | 66.61 | 1162.85 | 15.01 | 185.84 | 387.04 | 201.20 | 0.9478 | 1.7292 |
| -9 | 5.347 | 3.538 | 0.862 | 64.32 | 1159.53 | 15.55 | 187.24 | 387.62 | 200.38 | 0.9530 | 1.7283 |
| -8 | 5.519 | 3.668 | 0.865 | 62.12 | 1156.19 | 16.10 | 188.64 | 388.20 | 199.56 | 0.9583 | 1.7274 |
| -7 | 5.696 | 3.802 | 0.867 | 60.02 | 1152.84 | 16.66 | 190.05 | 388.77 | 198.73 | 0.9635 | 1.7265 |
| -6 | 5.876 | 3.939 | 0.870 | 57.99 | 1149.46 | 17.24 | 191.46 | 389.35 | 197.89 | 0.9688 | 1.7256 |
| -5 | 6.061 | 4.079 | 0.873 | 56.05 | 1146.07 | 17.84 | 192.87 | 389.92 | 197.04 | 0.9740 | 1.7247 |
| -4 | 6.250 | 4.224 | 0.875 | 54.19 | 1142.65 | 18.45 | 194.29 | 390.48 | 196.19 | 0.9792 | 1.7239 |
| -3 | 6.443 | 4.373 | 0.878 | 52.40 | 1139.22 | 19.08 | 195.71 | 391.05 | 195.33 | 0.9844 | 1.7230 |
| -2 | 6.641 | 4.525 | 0.880 | 50.68 | 1135.77 | 19.73 | 197.14 | 391.61 | 194.47 | 0.9896 | 1.7222 |
| -1 | 6.843 | 4.682 | 0.883 | 49.02 | 1132.30 | 20.40 | 198.57 | 392.16 | 193.60 | 0.9948 | 1.7214 |
| 0 | 7.049 | 4.842 | 0.886 | 47.43 | 1128.80 | 21.08 | 200.00 | 392.72 | 192.72 | 1.0000 | 1.7205 |
| 1 | 7.260 | 5.007 | 0.889 | 45.90 | 1125.29 | 21.78 | 201.44 | 393.27 | 191.83 | 1.0052 | 1.7197 |
| 2 | 7.476 | 5.176 | 0.891 | 44.43 | 1121.75 | 22.51 | 202.88 | 393.81 | 190.94 | 1.0104 | 1.7190 |
| 3 | 7.696 | 5.350 | 0.894 | 43.02 | 1118.20 | 23.25 | 204.33 | 394.36 | 190.03 | 1.0155 | 1.7182 |
| 4 | 7.922 | 5.528 | 0.897 | 41.65 | 1114.62 | 24.01 | 205.78 | 394.90 | 189.12 | 1.0207 | 1.7174 |
| 5 | 8.151 | 5.710 | 0.900 | 40.34 | 1111.02 | 24.79 | 207.23 | 395.44 | 188.21 | 1.0259 | 1.7166 |
| 6 | 8.386 | 5.897 | 0.903 | 39.08 | 1107.39 | 25.59 | 208.69 | 395.97 | 187.28 | 1.0310 | 1.7159 |
| 7 | 8.626 | 6.089 | 0.906 | 37.86 | 1103.74 | 26.41 | 210.15 | 396.50 | 186.34 | 1.0362 | 1.7152 |
| 8 | 8.871 | 6.285 | 0.909 | 36.68 | 1100.07 | 27.26 | 211.62 | 397.02 | 185.40 | 1.0413 | 1.7144 |
| 9 | 9.120 | 6.486 | 0.912 | 35.55 | 1096.37 | 28.13 | 213.09 | 397.54 | 184.45 | 1.0465 | 1.7137 |

*na základě Refprop 10.0

Zde obsažené informace představují příklady aktuálních naměřených dat a příklady použití zde nezaručují, že lze produkty prakticky využít pro příklad použití.

| t | p' | p'' | v' | v'' | rho' | rho'' | h' | h'' | r | s' | s'' |
|----|--------|--------|---------------------|---------------------|-------------------|-------------------|--------|--------|--------|---------|---------|
| °C | bar | bar | dm ³ /kg | dm ³ /kg | kg/m ³ | kg/m ³ | kJ/kg | kJ/kg | kJ/kg | kJ/kg K | kJ/kg K |
| 10 | 9.375 | 6.692 | 0.915 | 34.46 | 1092.65 | 29.02 | 214.57 | 398.06 | 183.49 | 1.0516 | 1.7130 |
| 11 | 9.635 | 6.903 | 0.918 | 33.41 | 1088.90 | 29.93 | 216.05 | 398.57 | 182.52 | 1.0568 | 1.7122 |
| 12 | 9.900 | 7.119 | 0.922 | 32.39 | 1085.12 | 30.87 | 217.54 | 399.08 | 181.54 | 1.0619 | 1.7115 |
| 13 | 10.171 | 7.340 | 0.925 | 31.41 | 1081.32 | 31.83 | 219.03 | 399.58 | 180.55 | 1.0670 | 1.7108 |
| 14 | 10.446 | 7.566 | 0.928 | 30.47 | 1077.49 | 32.82 | 220.52 | 400.08 | 179.56 | 1.0722 | 1.7101 |
| 15 | 10.728 | 7.798 | 0.931 | 29.55 | 1073.63 | 33.84 | 222.02 | 400.57 | 178.55 | 1.0773 | 1.7094 |
| 16 | 11.014 | 8.035 | 0.935 | 28.67 | 1069.75 | 34.88 | 223.53 | 401.06 | 177.53 | 1.0824 | 1.7087 |
| 17 | 11.306 | 8.277 | 0.938 | 27.82 | 1065.83 | 35.94 | 225.04 | 401.54 | 176.50 | 1.0875 | 1.7080 |
| 18 | 11.604 | 8.525 | 0.942 | 27.00 | 1061.89 | 37.04 | 226.55 | 402.02 | 175.46 | 1.0926 | 1.7073 |
| 19 | 11.907 | 8.778 | 0.945 | 26.20 | 1057.91 | 38.16 | 228.08 | 402.49 | 174.42 | 1.0978 | 1.7066 |
| 20 | 12.216 | 9.037 | 0.949 | 25.43 | 1053.90 | 39.32 | 229.60 | 402.96 | 173.36 | 1.1029 | 1.7059 |
| 21 | 12.531 | 9.302 | 0.953 | 24.69 | 1049.86 | 40.50 | 231.13 | 403.42 | 172.28 | 1.1080 | 1.7053 |
| 22 | 12.852 | 9.573 | 0.956 | 23.97 | 1045.79 | 41.72 | 232.67 | 403.87 | 171.20 | 1.1131 | 1.7046 |
| 23 | 13.178 | 9.850 | 0.960 | 23.27 | 1041.68 | 42.97 | 234.21 | 404.32 | 170.11 | 1.1182 | 1.7039 |
| 24 | 13.511 | 10.133 | 0.964 | 22.60 | 1037.54 | 44.25 | 235.76 | 404.77 | 169.00 | 1.1233 | 1.7032 |
| 25 | 13.849 | 10.422 | 0.968 | 21.95 | 1033.36 | 45.56 | 237.32 | 405.20 | 167.88 | 1.1284 | 1.7025 |
| 26 | 14.194 | 10.718 | 0.972 | 21.32 | 1029.15 | 46.91 | 238.88 | 405.63 | 166.75 | 1.1336 | 1.7018 |
| 27 | 14.544 | 11.019 | 0.976 | 20.71 | 1024.90 | 48.30 | 240.45 | 406.06 | 165.61 | 1.1387 | 1.7011 |
| 28 | 14.901 | 11.328 | 0.980 | 20.11 | 1020.61 | 49.72 | 242.02 | 406.47 | 164.45 | 1.1438 | 1.7004 |
| 29 | 15.264 | 11.642 | 0.984 | 19.54 | 1016.27 | 51.18 | 243.60 | 406.88 | 163.28 | 1.1489 | 1.6996 |
| 30 | 15.633 | 11.964 | 0.988 | 18.98 | 1011.90 | 52.68 | 245.18 | 407.28 | 162.10 | 1.1540 | 1.6989 |
| 31 | 16.009 | 12.292 | 0.993 | 18.44 | 1007.49 | 54.22 | 246.78 | 407.68 | 160.90 | 1.1592 | 1.6982 |
| 32 | 16.391 | 12.627 | 0.997 | 17.92 | 1003.03 | 55.80 | 248.38 | 408.06 | 159.69 | 1.1643 | 1.6975 |
| 33 | 16.780 | 12.969 | 1.001 | 17.42 | 998.52 | 57.42 | 249.98 | 408.44 | 158.46 | 1.1694 | 1.6967 |
| 34 | 17.175 | 13.318 | 1.006 | 16.92 | 993.97 | 59.09 | 251.60 | 408.81 | 157.21 | 1.1745 | 1.6960 |
| 35 | 17.577 | 13.675 | 1.011 | 16.45 | 989.37 | 60.80 | 253.22 | 409.17 | 155.95 | 1.1797 | 1.6952 |
| 36 | 17.985 | 14.038 | 1.016 | 15.98 | 984.72 | 62.56 | 254.85 | 409.52 | 154.67 | 1.1848 | 1.6944 |
| 37 | 18.400 | 14.409 | 1.020 | 15.54 | 980.02 | 64.37 | 256.48 | 409.86 | 153.38 | 1.1900 | 1.6937 |
| 38 | 18.822 | 14.788 | 1.025 | 15.10 | 975.26 | 66.23 | 258.13 | 410.20 | 152.07 | 1.1951 | 1.6929 |
| 39 | 19.251 | 15.174 | 1.030 | 14.68 | 970.45 | 68.14 | 259.78 | 410.52 | 150.74 | 1.2003 | 1.6921 |
| 40 | 19.686 | 15.568 | 1.036 | 14.26 | 965.57 | 70.11 | 261.44 | 410.83 | 149.39 | 1.2055 | 1.6912 |
| 41 | 20.129 | 15.970 | 1.041 | 13.86 | 960.64 | 72.13 | 263.12 | 411.13 | 148.02 | 1.2106 | 1.6904 |
| 42 | 20.578 | 16.380 | 1.046 | 13.48 | 955.64 | 74.21 | 264.80 | 411.43 | 146.63 | 1.2158 | 1.6895 |
| 43 | 21.035 | 16.799 | 1.052 | 13.10 | 950.58 | 76.35 | 266.49 | 411.71 | 145.22 | 1.2210 | 1.6887 |
| 44 | 21.499 | 17.225 | 1.058 | 12.73 | 945.44 | 78.55 | 268.19 | 411.97 | 143.79 | 1.2263 | 1.6878 |

| t | p' | p'' | v' | v'' | rho' | rho'' | h' | h'' | r | s' | s'' |
|----|--------|--------|---------------------|---------------------|-------------------|-------------------|--------|--------|--------|---------|---------|
| °C | bar | bar | dm ³ /kg | dm ³ /kg | kg/m ³ | kg/m ³ | kJ/kg | kJ/kg | kJ/kg | kJ/kg K | kJ/kg K |
| 45 | 21.970 | 17.660 | 1.064 | 12.37 | 940.24 | 80.82 | 269.89 | 412.23 | 142.33 | 1.2315 | 1.6869 |
| 46 | 22.448 | 18.104 | 1.070 | 12.03 | 934.96 | 83.16 | 271.61 | 412.47 | 140.86 | 1.2367 | 1.6859 |
| 47 | 22.933 | 18.556 | 1.076 | 11.69 | 929.59 | 85.56 | 273.35 | 412.70 | 139.36 | 1.2420 | 1.6850 |
| 48 | 23.426 | 19.017 | 1.082 | 11.36 | 924.15 | 88.05 | 275.09 | 412.92 | 137.83 | 1.2472 | 1.6840 |
| 49 | 23.926 | 19.487 | 1.089 | 11.04 | 918.62 | 90.60 | 276.84 | 413.12 | 136.28 | 1.2525 | 1.6830 |
| 50 | 24.433 | 19.966 | 1.095 | 10.72 | 913.00 | 93.24 | 278.61 | 413.31 | 134.70 | 1.2578 | 1.6819 |
| 51 | 24.949 | 20.455 | 1.102 | 10.42 | 907.28 | 95.96 | 280.39 | 413.48 | 133.09 | 1.2631 | 1.6809 |
| 52 | 25.471 | 20.953 | 1.109 | 10.12 | 901.47 | 98.77 | 282.18 | 413.63 | 131.45 | 1.2685 | 1.6798 |
| 53 | 26.001 | 21.461 | 1.117 | 9.84 | 895.55 | 101.67 | 283.99 | 413.77 | 129.78 | 1.2739 | 1.6786 |
| 54 | 26.539 | 21.979 | 1.124 | 9.55 | 889.52 | 104.67 | 285.81 | 413.89 | 128.08 | 1.2792 | 1.6775 |
| 55 | 27.085 | 22.506 | 1.132 | 9.28 | 883.37 | 107.77 | 287.64 | 413.99 | 126.34 | 1.2847 | 1.6763 |
| 56 | 27.638 | 23.044 | 1.140 | 9.01 | 877.10 | 110.98 | 289.49 | 414.07 | 124.57 | 1.2901 | 1.6750 |
| 57 | 28.199 | 23.593 | 1.148 | 8.75 | 870.71 | 114.30 | 291.36 | 414.13 | 122.76 | 1.2956 | 1.6737 |
| 58 | 28.767 | 24.152 | 1.157 | 8.49 | 864.17 | 117.74 | 293.25 | 414.16 | 120.92 | 1.3011 | 1.6724 |
| 59 | 29.344 | 24.722 | 1.166 | 8.24 | 857.49 | 121.31 | 295.15 | 414.18 | 119.03 | 1.3066 | 1.6710 |
| 60 | 29.928 | 25.303 | 1.176 | 8.00 | 850.66 | 125.01 | 297.07 | 414.17 | 117.09 | 1.3122 | 1.6695 |
| 61 | 30.520 | 25.896 | 1.185 | 7.76 | 843.67 | 128.86 | 299.02 | 414.13 | 115.11 | 1.3178 | 1.6680 |
| 62 | 31.121 | 26.500 | 1.195 | 7.53 | 836.51 | 132.86 | 300.98 | 414.07 | 113.08 | 1.3235 | 1.6664 |
| 63 | 31.728 | 27.116 | 1.206 | 7.30 | 829.16 | 137.02 | 302.97 | 413.97 | 111.00 | 1.3292 | 1.6648 |
| 64 | 32.344 | 27.745 | 1.217 | 7.07 | 821.61 | 141.35 | 304.98 | 413.85 | 108.86 | 1.3349 | 1.6631 |
| 65 | 32.968 | 28.386 | 1.229 | 6.86 | 813.86 | 145.88 | 307.02 | 413.69 | 106.66 | 1.3407 | 1.6613 |
| 66 | 33.600 | 29.040 | 1.241 | 6.64 | 805.87 | 150.60 | 309.09 | 413.49 | 104.40 | 1.3466 | 1.6594 |
| 67 | 34.239 | 29.707 | 1.254 | 6.43 | 797.64 | 155.55 | 311.19 | 413.25 | 102.06 | 1.3526 | 1.6574 |
| 68 | 34.886 | 30.388 | 1.267 | 6.22 | 789.14 | 160.74 | 313.33 | 412.98 | 99.65 | 1.3586 | 1.6553 |
| 69 | 35.541 | 31.083 | 1.281 | 6.02 | 780.35 | 166.18 | 315.50 | 412.65 | 97.16 | 1.3647 | 1.6531 |
| 70 | 36.204 | 31.793 | 1.297 | 5.82 | 771.24 | 171.92 | 317.71 | 412.28 | 94.57 | 1.3709 | 1.6508 |
| 71 | 36.874 | 32.518 | 1.313 | 5.62 | 761.78 | 177.97 | 319.96 | 411.85 | 91.88 | 1.3772 | 1.6484 |
| 72 | 37.551 | 33.259 | 1.330 | 5.42 | 751.92 | 184.38 | 322.27 | 411.36 | 89.09 | 1.3836 | 1.6458 |
| 73 | 38.235 | 34.016 | 1.348 | 5.23 | 741.62 | 191.18 | 324.63 | 410.80 | 86.17 | 1.3902 | 1.6430 |
| 74 | 38.926 | 34.791 | 1.368 | 5.04 | 730.82 | 198.42 | 327.05 | 410.16 | 83.10 | 1.3969 | 1.6400 |
| 75 | 39.624 | 35.585 | 1.390 | 4.85 | 719.45 | 206.18 | 329.55 | 409.43 | 79.88 | 1.4038 | 1.6368 |
| 76 | 40.327 | 36.398 | 1.414 | 4.66 | 707.43 | 214.53 | 332.13 | 408.61 | 76.48 | 1.4110 | 1.6333 |
| 77 | 41.035 | 37.232 | 1.440 | 4.47 | 694.63 | 223.57 | 334.81 | 407.67 | 72.86 | 1.4183 | 1.6295 |
| 78 | 41.747 | 38.089 | 1.469 | 4.28 | 680.90 | 233.43 | 337.61 | 406.59 | 68.98 | 1.4260 | 1.6254 |
| 79 | 42.462 | 38.971 | 1.501 | 4.09 | 666.05 | 244.29 | 340.55 | 405.34 | 64.79 | 1.4341 | 1.6208 |
| 80 | 43.178 | 39.881 | 1.539 | 3.90 | 649.78 | 256.41 | 343.67 | 403.89 | 60.22 | 1.4426 | 1.6156 |

Creard R-455A

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