Carbon Dioxide (CO2) C1O2(g)

T(K) Cp S -[G-H(Tr)]/T H-H(Tr) delta-f H delta-f G log Kf

0 0. 0. INFINITE -9.364 -393.151 -393.151 INFINITE

100 29.208 179.009 243.568 -6.456 -393.208 -393.683 205.639

200 32.359 199.975 217.046 -3.414 -393.404 -394.085 102.924

298.15 37.129 213.795 213.795 0. -393.522 -394.389 69.095

300 37.221 214.025 213.795 0.069 -393.523 -394.394 68.670

400 41.325 225.314 215.307 4.003 -393.583 -394.675 51.539

500 44.627 234.901 218.290 8.305 -393.666 -394.939 41.259

600 47.321 243.283 221.772 12.907 -393.803 -395.182 34.404

700 49.564 250.750 225.388 17.754 -393.983 -395.398 29.505

800 51.434 257.494 228.986 22.806 -394.188 -395.586 25.829

900 52.999 263.645 232.500 28.030 -394.405 -395.748 22.969

1000 54.308 269.299 235.901 33.397 -394.623 -395.886 20.679

1100 55.409 274.528 239.178 38.884 -394.838 -396.001 18.805

1200 56.342 279.390 242.329 44.473 -395.050 -396.098 17.242

1300 57.137 283.932 245.356 50.148 -395.257 -396.177 15.919

1400 57.802 288.191 248.265 55.896 -395.462 -396.240 14.784

1500 58.379 292.199 251.062 61.705 -395.668 -396.288 13.800

1600 58.886 295.983 253.753 67.569 -395.876 -396.323 12.939

1700 59.317 299.566 256.343 73.480 -396.090 -396.344 12.178

1800 59.701 302.968 258.840 79.431 -396.311 -396.353 11.502

1900 60.049 306.205 261.248 85.419 -396.542 -396.349 10.896

2000 60.350 309.293 263.574 91.439 -396.784 -396.333 10.351

2100 60.622 312.244 265.822 97.488 -397.039 -396.304 9.858

2200 60.865 315.070 267.996 103.562 -397.309 -396.262 9.408

2300 61.086 317.781 270.102 109.660 -397.596 -396.209 8.998

2400 61.287 320.385 272.144 115.779 -397.900 -396.142 8.622

2500 61.471 322.890 274.124 121.917 -398.222 -396.062 8.275

2600 61.647 325.305 276.046 128.073 -398.562 -395.969 7.955

2700 61.802 327.634 277.914 134.246 -398.921 -395.862 7.658

2800 61.952 329.885 279.730 140.433 -399.299 -395.742 7.383

2900 62.095 332.061 281.497 146.636 -399.695 -395.609 7.126

3000 62.229 334.169 283.218 152.852 -400.111 -395.461 6.886

3100 62.347 336.211 284.895 159.081 -400.545 -395.298 6.661

3200 62.462 338.192 286.529 165.321 -400.998 -395.122 6.450

3300 62.573 340.116 288.124 171.573 -401.470 -394.932 6.251

3400 62.681 341.986 289.681 177.836 -401.960 -394.726 6.064

3500 62.785 343.804 291.202 184.109 -402.467 -394.506 5.888

3600 62.884 345.574 292.687 190.393 -402.991 -394.271 5.721

3700 62.980 347.299 294.140 196.686 -403.532 -394.022 5.563

3800 63.074 348.979 295.561 202.989 -404.089 -393.756 5.413

3900 63.166 350.619 296.952 209.301 -404.662 -393.477 5.270

4000 63.254 352.219 298.314 215.622 -405.251 -393.183 5.134

4100 63.341 353.782 299.648 221.951 -405.856 -392.874 5.005

4200 63.426 355.310 300.955 228.290 -406.475 -392.550 4.882

4300 63.509 356.803 302.236 234.637 -407.110 -392.210 4.764

4400 63.588 358.264 303.493 240.991 -407.760 -391.857 4.652

4500 63.667 359.694 304.726 247.354 -408.426 -391.488 4.544

4600 63.745 361.094 305.937 253.725 -409.106 -391.105 4.441

4700 63.823 362.466 307.125 260.103 -409.802 -390.706 4.342

4800 63.893 363.810 308.292 266.489 -410.514 -390.292 4.247

4900 63.968 365.128 309.438 272.882 -411.242 -389.862 4.156

5000 64.046 366.422 310.565 279.283 -411.986 -389.419 4.068

5100 64.128 367.691 311.673 285.691 -412.746 -388.959 3.984

5200 64.220 368.937 312.762 292.109 -413.522 -388.486 3.902

5300 64.312 370.161 313.833 298.535 -414.314 -387.996 3.824

5400 64.404 371.364 314.888 304.971 -415.123 -387.493 3.748

5500 64.496 372.547 315.925 311.416 -415.949 -386.974 3.675

5600 64.588 373.709 316.947 317.870 -416.794 -386.439 3.605

5700 64.680 374.853 317.953 324.334 -417.658 -385.890 3.536

5800 64.772 375.979 318.944 330.806 -418.541 -385.324 3.470

5900 64.865 377.087 319.920 337.288 -419.445 -384.745 3.406

6000 64.957 378.178 320.882 343.779 -420.372 -384.148 3.344