|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Stoff | Form- | M | R | c0 |  |  |  |
| p | bzw. | cp | Hf\_ | S\_ | G\_ |  |  |
| art | g/mol | kJ/kgK | kJ/kgK | kJ/mol | J/molK | kJ/mol |  |
| O | g | 15,9994 | 0,51967 | 1,3696 | 249,18 | 161,059 | 201,16 |
| O2 | g | 31,9988 | 0,25984 | 0,9181 | 0 | 205,152 | −61,166 |
| H | g | 1,00794 | 8,24897 | 20,622 | 217,998 | 114,717 | 183,795 |
| H2 | g | 2,01588 | 4,12449 | 14,304 | 0 | 130,680 | −38,962 |
| OH | g | 17,0073 | 0,48888 | 1,7576 | 47,52 | 189,395 | −8,95 |
| H2O | fl | 18,0153 | 0,46152 | 4,1819 | −285,84 | 69,93 | −306,69 |
| H2O | g | 18,0153 | 0,46152 | 1,8646 | −241,83 | 188,835 | −298,13 |
| He | g | 4,002602 | 2,07727 | 5,1932 | 0 | 126,153 | −37,613 |
| Ne | g | 20,1797 | 0,41202 | 1,0300 | 0 | 146,328 | −43,628 |
| Ar | g | 39,948 | 0,20813 | 0,5203 | 0 | 154,846 | −46,167 |
| Kr | g | 83,80 | 0,09922 | 0,2480 | 0 | 164,085 | −48,922 |
| Xe | g | 131,293 | 0,06333 | 0,1583 | 0 | 169,685 | −50,592 |
| F2 | g | 37,99680 | 0,21882 | 0,8239 | 0 | 202,791 | −60,462 |
| HF | g | 20,00634 | 0,41559 | 1,4564 | −273,3 | 173,779 | −325,1 |
| Cl2 | g | 70,906 | 0,11726 | 0,4788 | 0 | 223,081 | −66,512 |
| HCl | g | 36,461 | 0,22804 | 0,7991 | −92,31 | 186,902 | −148,03 |
| S | fe | 32,065 | 0,25930 | 0,7095 | 0 | 32,054 | −9,557 |
| S | g | 32,065 | 0,25930 | 0,7383 | 277,17 | 167,829 | 227,13 |
| S2 | g | 64,130 | 0,12965 | 0,5068 | 128,6 | 228,17 | 60,57 |
| SO2 | g | 64,064 | 0,12978 | 0,6219 | −296,8 | 248,22 | −370,8 |
| H2S | g | 34,081 | 0,24396 | 1,0049 | −20,6 | 205,81 | −81,96 |
| N | g | 14,0067 | 0,59361 | 1,4840 | 472,7 | 153,301 | 427,0 |
| N2 | g | 28,0134 | 0,29681 | 1,0396 | 0 | 191,609 | −57,128 |
| NO | g | 30,0061 | 0,27709 | 0,9965 | 90,25 | 210,76 | 27,41 |
| NO2 | g | 46,0055 | 0,18073 | 0,7938 | 33,10 | 240,04 | −38,47 |
| N2O | g | 44,0128 | 0,18891 | 0,8700 | 82,05 | 219,96 | 16,47 |
| NH3 | g | 17,0305 | 0,48821 | 2,0921 | −45,94 | 192,77 | −103,41 |
| C | fe | 12,0107 | 0,69226 | 0,7091 | 0 | 5,74 | −1,711 |
| C | g | 12,0107 | 0,69226 | 1,7350 | 716,7 | 158,10 | 669,5 |
| CO | g | 28,0101 | 0,29684 | 1,0404 | −110,53 | 197,660 | −169,46 |
| CO2 | g | 44,010 | 0,18892 | 0,8438 | −393,51 | 213,785 | −457,25 |
| CH4 | g | 16,042 | 0,51829 | 2,185 | −74,87 | 186,25 | −130,40 |
| C2H6 | g | 30,069 | 0,27651 | 1,730 | −84,73 | 229,60 | −153,18 |
| C3H8 | g | 44,096 | 0,18855 | 1,667 | −103,85 | 270,02 | −184,36 |
| C4H10 | g | 58,122 | 0,14305 | 1,690 | −124,73 | 310,14 | −217,20 |
| C5H12 | fl | 72,149 | 0,11524 | 2,297 | −173,83 | 259,86 | −251,31 |
| C6H14 | fl | 86,175 | 0,09648 | 2,263 | −198,8 | 292,5 | −286,0 |
| C7H16 | fl | 100,20 | 0,08298 | 2,242 | −224,4 | 328,0 | −322,2 |
| C8H18 | fl | 114,23 | 0,07279 | 2,224 | −250,0 | 361,2 | −357,7 |
| C2H2 | g | 26,037 | 0,31933 | 1,693 | 226,77 | 200,94 | 166,86 |
| C2H4 | g | 28,053 | 0,29638 | 1,488 | 52,47 | 219,33 | −12,92 |
| C6H6 | fl | 78,112 | 0,10644 | 1,7425 | 49,04 | 171,54 | −2,10 |
| CH3OH | fl | 32,042 | 0,25949 | 2,546 | −239,45 | 126,61 | −277,20 |
| C2H5OH | fl | 46,068 | 0,18048 | 2,434 | −276,98 | 161,00 | −324,98 |
| HCOOH | fl | 46,025 | 0,18065 | 2,154 | −424,7 | 129,0 | −463,2 |
| CH2O | g | 30,026 | 0,27691 | 1,167 | −115,90 | 218,95 | −181,18 |
| COS | g | 60,076 | 0,13840 | 0,672 | −138,40 | 231,58 | −207,52 |
| HCN | g | 27,025 | 0,30765 | 1,293 | 135,14 | 201,83 | 74,96 |
| Ca | fe | 40,078 | 0,20746 | 0,647 | 0 | 41,59 | −12,40 |
| CaO | fe | 56,077 | 0,14827 | 0,751 | −634,9 | 38,1 | −646,3 |
| Ca(OH)2 | fe | 74,093 | 0,11222 | 1,183 | −986,1 | 83,4 | −1011,0 |
| CaSO4 | fe | 136,14 | 0,06107 | 0,732 | −1434,1 | 106,7 | −1465,9 |
| CaC2 | fe | 64,099 | 0,12971 | 0,974 | −59,4 | 70,3 | −80,4 |
| CaCO3 | fe | 100,09 | 0,08307 | 0,818 | −1208,4 | 93,1 | −1236,2 |
| Luft, | trocken | 28,9654 | 0,28705 | 1,0047 | −0,142 | 198,827 | −59,42 |