

TABLE A-25 Thermochemical Properties of Selected Substances at 298K and 1 atm

| Substance | Formula | Molar Mass, M (kg/kmol) | Enthalpy of Formation, h_f° (kJ/kmol) | Gibbs Function of Formation, \bar{g}_f° (kJ/kmol) | Absolute Entropy, \bar{s}° (kJ/kmol · K) | Heating Values | |
|-------------------|-------------------------------------|------------------------------|--|--|---|---------------------------|--------------------------|
| | | | | | | Higher, HHV (kJ/kg) | Lower, LHV (kJ/kg) |
| Carbon | C(s) | 12.01 | 0 | 0 | 5.74 | 32,770 | 32,770 |
| Hydrogen | H ₂ (g) | 2.016 | 0 | 0 | 130.57 | 141,780 | 119,950 |
| Nitrogen | N ₂ (g) | 28.01 | 0 | 0 | 191.50 | — | — |
| Oxygen | O ₂ (g) | 32.00 | 0 | 0 | 205.03 | — | — |
| Carbon monoxide | CO(g) | 28.01 | −110,530 | −137,150 | 197.54 | — | — |
| Carbon dioxide | CO ₂ (g) | 44.01 | −393,520 | −394,380 | 213.69 | — | — |
| Water | H ₂ O(g) | 18.02 | −241,820 | −228,590 | 188.72 | — | — |
| Water | H ₂ O(l) | 18.02 | −285,830 | −237,180 | 69.95 | — | — |
| Hydrogen peroxide | H ₂ O ₂ (g) | 34.02 | −136,310 | −105,600 | 232.63 | — | — |
| Ammonia | NH ₃ (g) | 17.03 | −46,190 | −16,590 | 192.33 | — | — |
| Oxygen | O(g) | 16.00 | 249,170 | 231,770 | 160.95 | — | — |
| Hydrogen | H(g) | 1.008 | 218,000 | 203,290 | 114.61 | — | — |
| Nitrogen | N(g) | 14.01 | 472,680 | 455,510 | 153.19 | — | — |
| Hydroxyl | OH(g) | 17.01 | 39,460 | 34,280 | 183.75 | — | — |
| Methane | CH ₄ (g) | 16.04 | −74,850 | −50,790 | 186.16 | 55,510 | 50,020 |
| Acetylene | C ₂ H ₂ (g) | 26.04 | 226,730 | 209,170 | 200.85 | 49,910 | 48,220 |
| Ethylene | C ₂ H ₄ (g) | 28.05 | 52,280 | 68,120 | 219.83 | 50,300 | 47,160 |
| Ethane | C ₂ H ₆ (g) | 30.07 | −84,680 | −32,890 | 229.49 | 51,870 | 47,480 |
| Propylene | C ₃ H ₆ (g) | 42.08 | 20,410 | 62,720 | 266.94 | 48,920 | 45,780 |
| Propane | C ₃ H ₈ (g) | 44.09 | −103,850 | −23,490 | 269.91 | 50,350 | 46,360 |
| Butane | C ₄ H ₁₀ (g) | 58.12 | −126,150 | −15,710 | 310.03 | 49,500 | 45,720 |
| Pentane | C ₅ H ₁₂ (g) | 72.15 | −146,440 | −8,200 | 348.40 | 49,010 | 45,350 |
| Octane | C ₈ H ₁₈ (g) | 114.22 | −208,450 | 17,320 | 463.67 | 48,260 | 44,790 |
| Octane | C ₈ H ₁₈ (l) | 114.22 | −249,910 | 6,610 | 360.79 | 47,900 | 44,430 |
| Benzene | C ₆ H ₆ (g) | 78.11 | 82,930 | 129,660 | 269.20 | 42,270 | 40,580 |
| Methanol | CH ₃ OH(g) | 32.04 | −200,890 | −162,140 | 239.70 | 23,850 | 21,110 |
| Methanol | CH ₃ OH(l) | 32.04 | −238,810 | −166,290 | 126.80 | 22,670 | 19,920 |
| Ethanol | C ₂ H ₅ OH(g) | 46.07 | −235,310 | −168,570 | 282.59 | 30,590 | 27,720 |
| Ethanol | C ₂ H ₅ OH(l) | 46.07 | −277,690 | −174,890 | 160.70 | 29,670 | 26,800 |

Source: Based on JANAF Thermochemical Tables, NSRDS-NBS-37, 1971; Selected Values of Chemical Thermodynamic Properties, NBS Tech. Note 270-3, 1968; and API Research Project 44, Carnegie Press, 1953. Heating values calculated.

Selected Values Of Chemical Thermodynam

Rosina Ehmman



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