

Table 4.1 Standard Transformed Gibbs Energies in kJ mol^{-1} of Hydrolysis of ATP as a Function of Temperature, pH, and Ionic Strength

| <i>T/K</i> | <i>I/M</i> | pH 5 | pH 6 | pH 7 | pH 8 | pH 9 |
|------------|------------|--------|--------|--------|--------|--------|
| 283.15 | 0 | -34.73 | -35.38 | -36.98 | -41.5 | -46.93 |
| | 0.10 | -32.95 | -33.49 | -35.87 | -40.50 | -45.62 |
| | 0.25 | -32.28 | -32.87 | -35.41 | -40.12 | -45.45 |
| 298.15 | 0 | -35.34 | -35.95 | -37.64 | -42.53 | -48.32 |
| | 0.10 | -33.33 | -33.91 | -36.53 | -41.51 | -47.13 |
| | 0.25 | -32.60 | -33.25 | -36.07 | -41.10 | -46.73 |
| 313.15 | 0 | -35.95 | -36.53 | -38.31 | -43.56 | -49.71 |
| | 0.10 | -33.71 | -34.32 | -37.16 | -42.51 | -48.43 |
| | 0.25 | -32.91 | -33.63 | -36.72 | -42.08 | -48.01 |

Source: With permission from R. A. Alberty, *J. Phys. Chem. B* 105, 7865–7870 (2001). Copyright 2001 American Chemical Society.