

Physical Constants

Name and symbol	Value and units
Velocity of light, c	2.997902 x 10 ¹⁰ cm/s
Planck constant, h	6.62377 x 10 ⁻²⁷ erg s/molecule
Avogadro constant, N	6.02380 x 10 ²³ molecule mol
Faraday constant, F	96.493.1 C/equivalent
Absolute temperature of ice point, T (0 °C)	273.15 K
Pressure-volume product for 1 mol of gas at 0 °C and zero pressure (PV) $P = 0$; $T = 0$ °C	2271.16 J/mol
Gas constant $P = 0$	8.31469 J/mol°
$R = \frac{(PV)T = 0 \text{ °C}}{T (0 \text{ °C})}$	1.98726 cal/mol°
Boltzmann constant $k = R/N$	1.38031 x 10 ⁻¹⁶ erg/molecule° 11.96171 Jcm/mol
Constant relating wave number and energy $Z = Nhc$	2.858917 cal cm/mole
Standard atmosphere, atm	1,013,250 dynes/cm ²
Thermocalorical calorie	4.1840 J (exact)

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