

Fundamental Constants

Speed of light in vacuum (c)	$c = 2.99792458 \times 10^8 \text{ m/s}$
Charge of electron (q_e)	$q_e = 1.60217733 \times 10^{-19} \text{ C}$
Faraday's constant (F)	$F = 96,485 \text{ C/mol}$
Planck's constant (h)	$h = 6.626075 \times 10^{-34} \text{ J}\cdot\text{s}$
Ideal gas constant (R)	$R = 0.0820568 \text{ L}\cdot\text{atm/mol}\cdot\text{K}$ $R = 8.31451 \text{ J/mol}\cdot\text{K}$
Boltzmann's constant (k)	$k = 1.380658 \times 10^{-23} \text{ J/K}$
Avogadro's constant (N_A)	$N_A = 6.0221367 \times 10^{23} \text{ mol}^{-1}$