Constants

$a_0 = 5.29177249 \times 10^{-11}$ m

$c = 2.99792458 \times 10^{+8}$ m/s

$\epsilon_0 = 8.854187817 \times 10^{-12}$ $\mathrm{C^2/N\,m^2}$

$F = 96485.47$ C/mol q_e

$k_e = 8987551788.0$ $\mathrm{N\,m^2/C^2}$

$G = 6.67259 \times 10^{-11}$ $\mathrm{N\,m^2/kg^2}$

$g = 9.8$ $\mathrm{m/s^2}$

$h = 6.626075 \times 10^{-34}$ J s

$k_B = 1.380658 \times 10^{-23}$ J/K

$\lambda_C = 2.42631058 \times 10^{-12}$ m

$\mu_0 = 12.5663706144 \times 10^{-7}$ $\mathrm{N/A^2}$

$m_e = 9.1093897 \times 10^{-31}$ kg

$M_{earth} = 5.98 \times 10^{+24}$ kg

$M_{moon} = 7.36 \times 10^{+22}$ kg

$m_n = 1.6749286 \times 10^{-27}$ kg

$m_p = 1.672623 \times 10^{-27}$ kg

$M_{sun} = 1.991 \times 10^{+30}$ kg

$N_A = 6.0221367 \times 10^{+23}$ 1/mol

$P_{std} = 1.013 \times 10^{+5}$ Pa

$q_e = 1.60217733 \times 10^{-19}$ C

$R = 8.314510$ J/K mol

$R_{earth} = 6.37 \times 10^{+6}$ m

$R_{earth_{moon}} = 3.84 \times 10^{+8}$ m

$R_{earth_{sun}} = 1.496 \times 10^{+11}$ m

$R_H = 1.0973731534 \times 10^{+7}$ 1/m

$R_{moon} = 1.74 \times 10^{+6}$ m

$R_{sun} = 6.96 \times 10^{+8}$ m

$u = 1.6605402 \times 10^{-27}$ kg

$V_m = 22.414 \times 10^{-3}$ $\mathrm{m^3/mol}$