CONVERSIONS AND CONSTANTS

Length units	inch (in) = 2.54 cm (exact) mile (mi) = 1.609 km
Volume units	L = 1.057 qt
Mass units	lb = 453.6 g u = 1.6605×10^{-24} g
Pressure units	atm = 760 Torr = 14.7 psi
Energy units	J = kg • m^2/s^2 = V • C cal = 4.184 J (exact) Cal (nutritional) = 4.184 kJ (exact)
Avogadro's number	6.022×10^{23}
Gas constant	R = 0.08206 L • atm/(mol • K) = 8.314 J/(mol • K)
Speed of light (in vacuum)	$c = 3.00 \times 10^8$ m/s
Planck's constant	$h = 6.626 \times 10^{-34}$ J • s
Coulomb	C = 6.242×10^{18} charges
Faraday constant	96,485 C/mol
Mass-energy	u = 931.5 MeV