CONSTANTS

Atomic mass unit	u	1.66×10^{-27} kg = 932 MeV/c ^{2}
Avogadro's number	N_A	6.02×10^{23} (g mol) $^{-1}$
Bohr magneton	$\mu_B = \frac{e \hbar}{2 m_e}$	9.27×10^{-24} A · m ^{2}
Bohr radius	$a_o = \frac{\hbar^2}{m_e e^2 k}$	0.529×10^{-10} m
Boltzmann's constant	$k_B = \frac{R}{N_A}$	1.38×10^{-23} J/K = 8.62×10^{-5} eV/K
Coulomb's constant	k	8.99×10^{9} N m ^{2} / C ^{2}
Curie	Ci	3.70×10^{10} decays/s
Electron charge	e	1.60×10^{-19} C
Electron mass	m_e	9.1095×10^{-31} kg = 5.486×10^{-4} u = 0.5110 MeV/c ^{2}
Hydrogen ground state	$E_o = \frac{m_e e^4 k^2}{2 \hbar^2}$	13.6 eV
Neutron mass	m_n	1.6750×10^{-27} kg = 1.0087 u = 939.57 MeV/c ^{2}
Nuclear magneton	$\mu_n = \frac{e \hbar}{2 m_p}$	5.05×10^{-27} A · m ^{2}
Permeability of free space	μ_o	$4\pi \times 10^{-7}$ N/A ^{2}
Permittivity of free space	ε_o	8.85×10^{-12} C ^{2}/N · m ^{2}
Planck's constant	h	6.63×10^{-34} J · s = 4.14×10^{-15} eV · s
	$\hbar = \frac{h}{2\pi}$	1.06×10^{-34} J · s = 6.58×10^{-16} eV · s
Proton mass	m_p	1.6726×10^{-27} kg = 1.0073 (11) u = 938.28 MeV/c ^{2}
Rydberg constant	R	1.10×10^{7} m $^{-1}$
Speed of light in vacuum	c	3.00×10^{8} m/s

CONVERSIONS

1 eV = 1.60×10^{-19} J

1 u = 932 MeV/c ^{2}

hc = 1.24×10^{3} eV · nm

kT = 0.02 eV at T = 300 K