Physical constants

Atomic mass unit	amu	1.66054×10^{-27} kg
Avogadro's number	N	6.02214×10^{23} mol^{-1}
Bohr radius	a_0	5.292×10^{-11} m
Boltzmann constant	k	1.38066×10^{-23} J·K^{-1}
Charge of an electron	e	1.60218×10^{-19} C
Faraday constant	F	96,485 C·mol^{-1}
Gas constant	R	8.31451 J·K^{-1}·mol^{-1} 0.08206 L·atm·K^{-1}·mol^{-1}
Mass of an electron	m_e	9.10939×10^{-31} kg 5.48580×10^{-4} amu
Mass of a neutron	m_n	1.67493×10^{-27} kg 1.00866 amu
Mass of a proton	m_p	1.67262×10^{-27} kg 1.00728 amu
Planck's constant	h	6.62608×10^{-34} J·s
Speed of light	c	2.99792458×10^{8} m·s^{-1}

Conversion factors

1 pascal (pa) = 1 N·m^{-2} = 1 kg·m^{-1}·s^{-2}

1 atm = 101,325 pa = 760 torr (mmHg)

K = ^{o}C + 273.15

1 cal = 4.184 joules

1 joule = 1 kg·m^{2}·s^{-2}

Spectrochemical series:

$I^- < Br^- < Cl^- < OH^- < F^- < H_2O < NH_3 <$ en $< CN^- <$ CO