

Fundamental Physical Constants <sup>[1]</sup>				
Pi	$\pi$	3.141 592 653 59		
Speed of light in vacuum	$c$	2.997 924 58	$\cdot 10^8$	m/s
Elementary charge	$e$	1.602 176 6208(98)	$\cdot 10^{-19}$	C
Electron volt	eV	1.062 176 6208(98)	$\cdot 10^{-19}$	J
Planck constant	$h$	6.626 070 040(81)	$\cdot 10^{-34}$	J•s
	$\hbar = h/2\pi$	1.054 571 800(13)	$\cdot 10^{-34}$	J•s
Electric constant	$\epsilon_0 = 1/(\mu c^2)$	8.854 187 817	$\cdot 10^{-12}$	A•s/(V•m)
Fine structure constant	$\alpha$	7.297 352 5664(17)	$\cdot 10^{-3}$	
Magnetic flux quantum	$\Phi_0$	2.067 833 831(13)	$\cdot 10^{-15}$	Wb (Weber)
Magnetic constant	$\mu_0$	$4\pi$	$\cdot 10^{-7}$	V•s/(A•m)
Gravitational constant	$G$	6.674 08(31)	$\cdot 10^{-11}$	N•m <sup>2</sup> /kg <sup>2</sup>
gravitational acceleration	$g$	9.806 65		m/s <sup>2</sup>
Conductance quantum	$G_0$	7.748 091 7310(18)	$\cdot 10^{-5}$	S (Siemens)
Faraday constant	$F$	96 485.332 89(59)		C/mol
Absolute zero point of temperature	$T_0$	-273.15 °C = 0 K		
Normal pressure and normal temperature		$T_n = 273.15$ K, $p_n = 100\,000$ Pa		
Molar Volume of the ideal Gas at $T_n$ and $p_n$ )	$V_m$	22.413 962(13)	$\cdot 10^{-3}$	m <sup>3</sup> /mol
Stefan-Boltzmann constant	$\sigma$	5.670 367(13)	$\cdot 10^{-8}$	W/(m <sup>2</sup> •K <sup>4</sup> )
Avogadro constant	$N_A$	6.022 140 857(74)	$\cdot 10^{23}$	mol <sup>-1</sup>
molar gas constant	$R$	8.314 4598(48)		J/(mol•K)
Boltzmann constant	$k = R/N_A$	1.380 648 52(79)	$\cdot 10^{-23}$	J/K
Wien wavelength displacement law constant	$b$	2.897 7685(51)	$\cdot 10^{-3}$	K•m
Solar constant	$S$	1.366(30)	$\cdot 10^3$	W/m <sup>2</sup>
Rydberg constant (Hydrogen atom)	$R_H$	10 967 758.340 63(10)		m <sup>-1</sup>
Rydberg constant (infinite core masses)	$R_\infty$	10 973 731.568 508(65)		m <sup>-1</sup>
Atomic mass unit	1 u	1.660 539 040(20)	$\cdot 10^{-27}$	kg
Mass of proton	$m_p$	1.672 621 898(21)	$\cdot 10^{-27}$	kg
		1.007 276 466 879(91)	U	
Mass of electron	$m_e$	9.109 383 56(11)	$\cdot 10^{-31}$	kg
		0.510 998 9461(31)	U	
Mass of neutron	$m_n$	1.674 927 471(21)	$\cdot 10^{-27}$	kg
		1.008 664 915 88(49)	U	

[1] <http://physics.nist.gov/cuu/index.html>