Comparison of 1986, 1998 and 2002 values

Quantity	*Symbol*	*1986 Value*	*1998 Value*	*2002 Value*	*Unit*
Planck constant	h	6.626 075 5 (40)	6.626 068 76 (52)	6.626 069 3 (11)	$\times 10^{-34}$ J s
elementary charge (charge on a proton)	e	1.602 177 33 (49)	1.602 176 462 (63)	1.602 176 53 (14)	$\times 10^{-19}$ C
electron rest mass	m_e	9.109 389 7 (54)	9.109 381 88 (72)	9.109 382 6 (16)	$\times 10^{-31}$ kg
proton rest mass	m_p	1.672 623 1 (10)	1.672 621 58 (13)	1.672 621 71 (29)	$\times 10^{-27}$ kg
atomic mass constant (dalton, or unified atomic mass unit, $m(^{12}C)/12$)	m_u = Da = u	1.660 540 2 (10)	1.660 538 73 (13)	1.660 538 86 (28)	$\times 10^{-27}$ kg
Avogadro constant	L, N_A	6.022 136 7 (36)	6.022 141 99 (47)	6.022 141 5 (10)	$\times 10^{23}$ mol^{-1}
Boltzmann constant	k, (k_B)	1.380 658 (12)	1.380 650 3 (24)	1.380 650 5 (24)	$\times 10^{-23}$ J K^{-1}
Faraday constant	F	9.648 530 9 (29)	9.648 534 15 (39)	9.648 533 83 (83)	$\times 10^{4}$ C mol^{-1}
gas constant	R	8.314 510 (70)	8.314 472 (15)	8.314 472 (15)	J mol^{-1} K^{-1}
fine structure constant $e^2/4\pi\varepsilon_0\hbar c$	α	7.297 353 08 (33)	7.297 352 533 (27)	7.297 352 568 (24)	$\times 10^{-3}$
Bohr radius	a_0	0.529 177 249 (24)	0.529 177 208 3 (19)	0.529 177 210 8 (18)	$\times 10^{-10}$ m
Hartree energy	E_h	4.359 748 2 (26)	4.359 743 81 (34)	4.359 744 17 (75)	$\times 10^{-18}$ J
Rydberg constant	R_∞	10 973 731.534 (13)	10 973 731.568 548 (83)	10 973 731.568 525 (73)	m^{-1}
Bohr magneton	μ_B	9.274 015 4 (13)	9.274 008 99 (37)	9.274 009 49 (80)	$\times 10^{-24}$ J T^{-1}
Landé g factor for free electron	g	2.002 319 304 386 (20)	2.002 319 304 373 7 (82)	2.002 319 304 371 8 (75)	
nuclear magneton	μ_N	5.050 786 6 (17)	5.050 783 17 (20)	5.050 783 43 (43)	$\times 10^{-27}$ J T^{-1}
Newtonian constant of gravitation	G		6.673 (10)	6.674 2 (10)	$\times 10^{-11}$ m^3 kg^{-1} s^{-2}

The values are presented in a concise notation whereby the standard uncertainty is given in parenthesis next to the least significant digits to which it applies; for example, h = 6.626 069 3 (11) is the concise form of the expression h = 6.626 069 3 ± 0.000 001 1