SELECTED PHYSICAL CONSTANTS**

Quantity	Quoted Value	S*	SI Unit	Symbol
Atomic mass constant	$1.660\ 538\ 86 \times 10^{-27}$	28	kg	m_u
Avogadro constant	$6.022\ 1415 \times 10^{23}$	10	mol^{-1}	N_A
Bohr magneton	$927.4\ 00\ 949 \times 10^{-26}$	80	$J{\cdot}T^{-1}$	μ_B
Boltzmann constant	$1.380\ 6505 \times 10^{-23}$	24	$J{\cdot}K^{-1}$	$k\ (= R/N_A)$
Electron charge	$1.602\ 176\ 53 \times 10^{-19}$	14	C	$-e$
Electron specific charge	$-1.758\ 820\ 12 \times 10^{11}$	15	$C{\cdot}kg^{-1}$	$-e/m_e$
Electron mass	$9.109\ 3826 \times 10^{-31}$	16	kg	m_e
Faraday constant	$9.648\ 533\ 83 \times 10^{4}$	83	$C{\cdot}mol^{-1}$	F
Fine-structure constant	0.007 297 352 568	24	–	α
Josephson constant	$483.5\ 97\ 879 \times 10^{12}$	41	$Hz{\cdot}V^{-1}$	$2e/h$
Magnetic flux quantum	$2.067\ 833\ 72 \times 10^{-15}$	18	Wb	ϕ_o
Molar gas constant	8.314 472	15	$J{\cdot}mol^{-1}{\cdot}K^{-1}$	R
Newtonian constant of gravitation	6.6742×10^{-11}	10	$m^3{\cdot}kg^{-1}{\cdot}s^{-2}$	G
Magnetic constant	$4\pi \times 10^{-7}$	**d**	H/m	μ_o
Electric constant	$8.854\ 1878\cdots \times 10^{-12}$	**d**	F/m	ε_o
Planck constant	$6.626\ 0693 \times 10^{-34}$	11	J·s	h
Quantum of circulation	$3.636\ 947\ 550 \times 10^{-4}$	24	$J{\cdot}s{\cdot}kg^{-1}$	$\hbar/2m_e$
Rydberg constant	10 973 731.568 525	73	m^{-1}	R_∞
Molar volume of ideal gas (273.15 K, 100 kPa)	$22.710\ 981 \times 10^{-3}$	40	$m^3{\cdot}mol^{-1}$	V_m
Stefan-Boltzmann constant	$5.670\ 400 \times 10^{-8}$	40	$W{\cdot}K^{-4}{\cdot}m^{-2}$	σ
Speed of light	299 792 458	**d**	$m{\cdot}s^{-1}$	c

* The numbers in this column are the one-standard-deviation uncertainties in the last digits of the quoted value. The symbol **d** stands here for defined value.

** Drawn from Committee on Data for Science and Technology (CODATA) 2002.