

Physical constants

a_0	$5.29177210544 \times 10^{-11}$	m	Bohr radius
α	$7.2973525643 \times 10^{-3}$		Fine structure constant
c	299792458	m s^{-1}	Speed of light in vacuum (exact)
e	$1.602176634 \times 10^{-19}$	A s	Elementary charge (exact)
ε_0	$8.8541878188 \times 10^{-12}$	$\text{A}^2 \text{s}^2 \text{J}^{-1} \text{m}^{-1}$	Vacuum electric permittivity
h	$6.62607015 \times 10^{-34}$	J s	Planck constant (exact)
\hbar	$1.05457182 \times 10^{-34}$	J s	Reduced Planck constant $h/2\pi$
k	1.380649×10^{-23}	J K^{-1}	Boltzmann constant (exact)
m_e	$9.1093837139 \times 10^{-31}$	kg	Electron mass
m_p	$1.67262192595 \times 10^{-27}$	kg	Proton mass
μ_0	$1.25663706127 \times 10^{-6}$	$\text{J A}^{-2} \text{m}^{-1}$	Vacuum magnetic permeability

Eigenmath script

Notes

1. Data are from physics.nist.gov/cuu/Constants
2. Numerical values for c , e , h , and k are exact.
3. In SI units, Coulomb is a derived unit defined as one Ampere second.
4. Bohr radius a_0 is for full electron mass.