

PHYSICAL CONSTANTS

speed of light	c	299,792,458 [†]	meter sec ⁻¹
elementary charge	e	4.803×10^{-10}	esu
		1.602×10^{-19}	coulomb
electron mass	m_e	9.110×10^{-28}	gram
proton mass	m_p	1.673×10^{-24}	gram
Avogadro's number	N_0	6.022×10^{23}	mole ⁻¹
Boltzmann constant	k	1.381×10^{-16}	erg kelvin ⁻¹
Planck constant	h	6.626×10^{-27}	erg sec
gravitational constant	G	6.672×10^{-8}	gram ⁻¹ cm ³ sec ⁻²
electron magnetic moment		9.285×10^{-21}	erg gauss ⁻¹
proton magnetic moment		1.411×10^{-23}	erg gauss ⁻¹

[†]The assignment of this exact value to c constitutes the new definition of the meter, as explained in Appendix E. The values of the other constants have here been arbitrarily rounded off to four digits. With the exception of the gravitational constant G they have all been determined experimentally with precision considerably better than that.