

Physical Constants

Physics

The constants that recur across every branch of physics.

Constants worth knowing by magnitude.

Constant	Symbol	Value
Speed of light	c	$3.00 \times 10^8 \text{ m/s}$
Planck constant	h	$6.63 \times 10^{-34} \text{ J}\cdot\text{s}$
Elementary charge	e	$1.60 \times 10^{-19} \text{ C}$
Gravitational constant	G	$6.67 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2$
Avogadro constant	N_A	$6.02 \times 10^{23} \text{ /mol}$
Boltzmann constant	k	$1.38 \times 10^{-23} \text{ J/K}$
Electron mass	m_e	$9.11 \times 10^{-31} \text{ kg}$

Since 2019 c , h , e , N_A and k are defined exactly. They are no longer measured quantities but fixed by definition.