

Physical constants

Constant	Symbol	Equivalent
Avogadro constant	N_A	6.02×10^{23} molecules/mol
Earth mass	M_E	5.98×10^{24} kg
Earth mean radius	R_E	6.37×10^6 m
electron rest mass	m_e	9.11×10^{-31} kg
elementary charge	e	1.60×10^{-19} C
free-fall acceleration at Earth's surface	g	9.80 m/s ²
gravitational constant	G	6.67×10^{-11} N*m ² /kg ²
Planck constant	h	6.63×10^{-34} J*s
proton rest mass	m_p	1.67×10^{-27} kg
speed of light	c	3.00×10^8 m/s
speed of sound in air	v_s	343 m/s
universal gas constant	R	8.31 J/mol*K or 0.0821 L*atm/mol*K
proportionality constant	k	8.99×10^9 N*m ² /C ²