

Universal Constants

•	CONSTANT	VALUES
1	Speed of light (C)	2.99792458×10^8 m/sec
2	Mass of electron (m_e)	$9.1093897 \times 10^{-31}$ kg
3	Mass of proton (m_p)	$1.6726231 \times 10^{-27}$ kg
4	Mass of nutron (m_n)	$1.6749268 \times 10^{-27}$ kg
5	Charge of proton (+e)	$+1.60217733 \times 10^{-19}$ c
6	Charge of electron (-e)	$-1.60217733 \times 10^{-19}$ c
7	Charge of nutron	0
8	Gravitational Constant (G)	6.67259×10^{-11} N m ² / kg ²
9	Gas constant (R)	8.314510 J K ⁻¹ mol ⁻¹
10	Avogadro Constant (N_A)	6.0221367×10^{23} / mol
11	Bohr radius (a_0)	$5.29177249 \times 10^{-11}$ m
12	Rydberg constant (R)	1.0973731534×10^7 mol ⁻¹
13	Plank constant (h)	$6.62600755 \times 10^{-34}$ J sec
14	Faraday constant (F)	96485.3029 C/mol
15	Permittivity in vecuum (ϵ_0)	$8.854187817 \times 10^{-12}$ C ² N ⁻¹ ·m ⁻² , F/m
16	Permeability in vecuum (μ_0)	$4\pi \times 10^{-7}$ N/A ²
17	Ground state energy of H- Atom	13.6056 ev
18	Mass of earth	5.98×10^{24} kg
19	mean radius of earth	6.37×10^6 m

Universal Constants In Physics

F Rizvi



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