

Electromagnetic Constants

Quantity	Symbol	Value	Units	Rel.Uncertainty (ppm)
elementary charge	e	1.60217733(49)	10^{-19}C	0.30
	e/h	2.41798836(72)	10^{14}AJ^{-1}	0.30
magnetic flux quantum, $h/2e$	Φ_0	2.06783461(61)	10^{-15}Wb	0.30
Josephson frequency-voltage ratio	$2e/h$	4.8359767(14)	10^{14}HzV^{-1}	0.30
quantized Hall conductance	e^2/h	3.87404614(17)	10^{-5}S	0.045
quantized Hall resistance, $h/e^2 = \mu_0 c/2\alpha$	R_H	25812.8056(12)	Ω	0.045
Bohr magneton, $e\hbar/2m_e$	μ_B	9.2740154(31)	10^{-24}JT^{-1}	0.34
in electron volts, μ_B/e		5.78838263(52)	10^{-5}eVT^{-1}	0.089
in hertz, μ_B/h		1.39962418(42)	10^{10}HzT^{-1}	0.30
in wavenumbers, μ_B/hc		46.686437(14)	$\text{m}^{-1}\text{T}^{-1}$	0.30
in kelvins, μ_B/k		0.6717099(57)	KT^{-1}	8.5
nuclear magneton, $e\hbar/2m_p$	μ_N	5.0507866(17)	10^{-27}JT^{-1}	0.34
in electron volts, μ_N/e		3.15245166(28)	10^{-8}eVT^{-1}	0.089
in hertz, μ_N/h		7.6225914(23)	MHzT^{-1}	0.30
in wavenumbers, μ_N/hc		2.54262281(77)	$10^{-2}\text{m}^{-1}\text{T}^{-1}$	0.30
in kelvins, μ_N/k		3.658246(31)	10^{-4}KT^{-1}	8.5