

Muon

Quantity	Symbol	Value	Units	Rel.Uncertainty (ppm)
muon mass	m_μ	1.8835327(11)	10^{-28}kg	0.61
		0.113428913(17)	u	0.15
in electron volts, $m_\mu c^2/\{e\}$		105.658389(34)	MeV	0.32
muon-electron mass ratio	m_μ/m_e	206.768262(30)		0.15
muon molar mass	$M(\mu), M_\mu$	1.13428913(17)	10^{-4}kg/mol	0.15
muon-magnetic moment	μ_μ	4.4904514(15)	10^{-26}JT^{-1}	0.33
in Bohr magnetons	μ_μ/μ_B	4.84197097(71)	10^{-3}	0.15
in nuclear magnetons	μ_μ/μ_N	8.8905981(13)		0.15
muon magnetic moment anomaly, $[\mu_\mu/(e\hbar/2m_\mu)] - 1$	a_μ	1.1659230(84)	10^{-3}	7.2
muon g-factor, $2(1 + a_\mu)$	g_μ	2.002331846(17)		0.0084
muon-proton magnetic moment ratio	μ_μ/μ_p	3.18334547(47)		0.15