

R47v0 Ref page : Constants -- CNST (Constants) on key g[+] or in menu [CAT.1]F2

Label	CNST-param	PEM #	Abbreviated name	FullName	Value	Unit
Δ_g	00	# 1	yr.gregori	Days per year (Gregorian)	$+3.652425 \times 10^2$	d
r_{Bohr}	01	# 2	rad.bohr	Bohr radius	$+5.29177210544 \times 10^{-11}$	m
a_{Moon}	02	# 3	orb.moon	Moon orbit (semi major axis)	$+3.844 \times 10^8$	m
$a_\oplus$	03	# 4	orb.earth	Earth orbit (semi major axis)	$+1.495979 \times 10^{11}$	m
c	04	# 5	lightspeed	Speed of light (vacuum)	$+2.99792458 \times 10^8$	m/s
C_1	05	# 6	c.radiatn1	1st radiation constant	$+3.74177185219275801136715555929985 \times 10^{-16}$	Wm ²
C_2	06	# 7	c.radiatn2	2nd radiation constant	$+1.438776877503933802146671601543912 \times 10^{-2}$	mK
e	07	# 8	charge.elem	Elementary charge	$+1.602176634 \times 10^{-19}$	As
e	08	# 9	e.euler	Euler's	$+2.718281828459045235360287471352662$	
F	09	# 10	c.faraday	Faraday constant	$+9.64853321233100184 \times 10^4$	As/mol
F_α	10	# 11	a.feigenbm	Feigenbaum alpha	$+2.502907875095892822283902873218216$	
F_δ	11	# 12	d.feigenbm	Feigenbaum delta	$+4.669201609102990671853203820466202$	
G	12	# 13	c.grav.nwt	Newtonian constant of gravitation	$+6.6743 \times 10^{-11}$	m ³ /kg.s ²
G_0	13	# 14	cond.quant	Conductance quantum	$+7.748091729863650646680823323308764 \times 10^{-5}$	Ω^{-1}
G_C	14	# 15	c.catalan	Catalan's constant	$+9.159655941772190150546035149323841 \times 10^{-1}$	
g_e	15	# 16	gfact.elec	Landé's electron g-factor	-2.00231930436092	
$GM_\oplus$	16	# 17	c.grav.geo	Geocentric gravitational constant	$+3.986004418 \times 10^{14}$	m ³ /s ²
$g_\oplus$	17	# 18	acc.earth	Standard Earth acceleration	$+9.80665$	m/s ²
h	18	# 19	c.planck	Planck constant	$+6.62607015 \times 10^{-34}$	Js
$\hbar$	19	# 20	red.planck	Reduced Planck constant	$+1.05457181764615639126428003302281 \times 10^{-34}$	Js
k_B	20	# 21	c.boltzmn	Boltzmann constant	$+1.380659 \times 10^{-23}$	J/K
K_J	21	# 22	c.josephsn	Josephson constant	$+4.835978484168836324476582850545281 \times 10^{14}$	Hz/V
l_{PL}	22	# 23	len.planck	Planck length	$+1.616255 \times 10^{-35}$	m
m_e	23	# 24	mass.elec	Electron rest mass	$+9.1093837139 \times 10^{-31}$	kg
M_{Moon}	24	# 25	mass.moon	Mass of the Moon	$+7.349 \times 10^{22}$	kg
m_n	25	# 26	mass.neu	Neutron rest mass	$+1.67492750056 \times 10^{-27}$	kg
m_n/m_p	26	# 27	r.neu.prot	Neutron / proton rest mass	$+1.00137841946$	
m_p	27	# 28	mass.prot	Proton rest mass	$+1.67262182595 \times 10^{-27}$	kg
m_{pL}	28	# 29	mass.planck	Planck mass	$+2.176434 \times 10^{-8}$	kg
m_p/m_e	29	# 30	r.prot.elec	Proton / electron rest mass	$+1.83615267342 \times 10^3$	
m_u	30	# 31	mass.atom	Atomic mass constant	$+1.6605390689 \times 10^{-27}$	kg
$m_u c^2$	31	# 32	energy.atom	Energy equivalent of m_u	$+1.4924180876 \times 10^{-10}$	J
m_μ	32	# 33	mass.muon	Muon rest mass	$+1.883531627 \times 10^{-28}$	kg
$M_\odot$	33	# 34	mass.sun	Mass of the Sun	$+1.9891 \times 10^{30}$	kg
$M_\oplus$	34	# 35	mass.earth	Mass of the Earth	$+5.9736 \times 10^{24}$	kg
N_A	35	# 36	nr.avogadro	Avogadro's number	$+6.02214076 \times 10^{23}$	/mol
NaN	36	# 37	not.a.nr	Not a Number	Not a number	
p_0	37	# 38	press.atm	Standard atmospheric pressure	$+1.01325 \times 10^5$	Pa
R	38	# 39	c.mol.gas	Molar gas constant	$+8.31446261815324$	J/mol K
r_e	39	# 40	rad.elec	Classical electron radius	$+2.8179403205 \times 10^{-15}$	m
R_K	40	# 41	c.klitzing	Von Klitzing constant	$+2.581280745930450666004551670608744 \times 10^4$	Ω
R_{Moon}	41	# 42	rad.moon	Mean radius of the Moon	$+1.73753 \times 10^6$	m
$R_\odot$	42	# 43	c.rydberg	Rydberg constant	$+1.097373156815 \times 10^7$	/mol
$R_\oplus$	43	# 44	rad.sun	Mean radius of the Sun	$+6.96 \times 10^8$	m
$R_\oplus$	44	# 45	rad.earth	Mean radius of the Earth	$+6.37101 \times 10^6$	m
$S_{a\oplus}$	45	# 46	majax.earth	Semi-major axis of the Earth	$+6.378137 \times 10^6$	m
$S_{b\oplus}$	46	# 47	minax.earth	Semi-minor axis of the Earth	$+6.3567523142 \times 10^6$	m
Se^2	47	# 48	sq.eccent1	1st eccentricity squared	$+6.69437999014 \times 10^{-3}$	
Se'^2	48	# 49	sq.eccent2	2nd eccentricity squared	$+6.7394674228 \times 10^{-3}$	
Sf^{-1}	49	# 50	f.flatteng	Flattening factor	$+2.98257223563 \times 10^2$	
T_0	50	# 51	temp.stand	Standard temperature	$+2.7315 \times 10^2$	K
T_P	51	# 52	temp.planck	Planck temperature	$+1.416784 \times 10^{32}$	K
t_{PL}	52	# 53	time.planck	Planck time	$+5.391247 \times 10^{-44}$	s
V_m	53	# 54	volume.gas	Volume of ideal gas	$+2.241396954501413773501110288675056 \times 10^{-2}$	m ³ /mol
Z_0	54	# 55	imped.vac	Characteristic impedance of vacuum	$+3.76730313412 \times 10^2$	Ω
α_F	55	# 56	c.finestruc	Fine-structure constant	$+7.2973525643 \times 10^{-3}$	
K_0	56	# 57	c.khinchin	Khinchin constant	$+2.685452001065306445309714835481796$	
γ_{EM}	57	# 58	c.eul.masoc	Euler-Mascheroni constant	$+5.772156649015328606065120900824024 \times 10^{-1}$	
γ_p	58	# 59	r.gyro.prot	Proton gyromagnetic ratio	$+2.6752218708 \times 10^8$	
$\Delta\nu_{Cs}$	59	# 60	frq.hypf.cs	Hyperfine transition frequency of ¹³³ Cs	$+9.19263177 \times 10^9$	Hz
ϵ_0	60	# 61	epermt.vac	Vacuum electric permittivity	$+8.8541878188 \times 10^{-12}$	As/Vm
λ_C	61	# 62	wavl.elec	Compton wavelength of the electron	$+2.42631023538 \times 10^{-12}$	m
λ_{Cn}	62	# 63	wavl.nu	Compton wavelength of the neutron	$+1.31959090382 \times 10^{-15}$	m
λ_{Cp}	63	# 64	wavl.prot	Compton wavelength of the proton	$+1.32140985360 \times 10^{-15}$	m
μ_0	64	# 65	mpermb.vac	Vacuum magnetic permeability	$+1.25663706127 \times 10^{-6}$	Vs/Am
μ_B	65	# 66	magn.both	Bohr's magneton	$+9.274010065 \times 10^{-24}$	J/T
μ_e	66	# 67	mgmom.elec	Electron magnetic moment	$-9.2847646917 \times 10^{-24}$	J/T
μ_e/μ_B	67	# 68	r.elec.bohr	Electron magnetic moment / Bohr's magneton	-1.00115965218046	
μ_n	68	# 69	mgmom.neu	Neutron magnetic moment	$-9.6623653 \times 10^{-27}$	J/T
μ_p	69	# 70	mgmom.prot	Proton magnetic moment	$+1.41060679545 \times 10^{-26}$	J/T
μ_ν	70	# 71	magn.nucl	Nuclear magneton	$+5.0507837393 \times 10^{-27}$	J/T
μ_μ	71	# 72	mgmom.muon	Muon magnetic moment	$-4.4904483 \times 10^{-26}$	J/T
σ_B	72	# 73	c.stephbol	Stefan-Boltzmann constant	$+5.67037441918442945397096731889231 \times 10^{-8}$	W/m ² K ⁴
ϕ	73	# 74	r.golden	Golden ratio	$+1.618033988749894848204586834365638$	
Φ_0	74	# 75	fluxq.magn	Magnetic flux quantum	$+2.067833848461929323081115412147497 \times 10^{-15}$	Vs
$\omega_\oplus$	75	# 76	vangl.earth	Nominal mean angular velocity of the Earth	$+7.292115 \times 10^{-5}$	rad/s
$-\infty$	76	# 77	inf.minus	Minus infinity	$-\infty$	
$+\infty$	77	# 78	inf.plus	Plus infinity	$+\infty$	
$\#$	78	# 79	zero	Zero	0	
ζ_B	79	# 80	exp.bbone	Backbone exponent	$+3.566668367128895828373073810012663 \times 10^{-1}$	
δ_s	80	# 81	r.silver	Silver ratio	$+2.414213562373095048001688724209698$	
μ_G	81	# 82	c.gerver	Gerver constant	$+2.21953166887197$	
τ	82	# 83	c.circle	tau	$+6.283185307179586476925286766599006$	
π	83	# 84	pi	pi	$+3.141592653589793238462643383279503$	