

Name	Description	Value
alpha	Fine structure constant	$7.2973525698 \times 10^{-3}$
au	astronomical unit	$1.49597870700 \times 10^{11}$ m
c	Speed of light in a vacuum	299792458 m/s
DtoR	Degrees to radians	0.0174532925199433
e	elementary charge	$1.602176565 \times 10^{-19}$ C
eps0	electric vacuum permittivity	$8.854187817 \times 10^{-12}$ F/m
euler	Euler's number	2.7182818284590452
F	Faraday constant $N_A e$	96485.3365 C/mol
G	Gravitation constant	6.67384×10^{-11} m ³ /kg/s ²
gn	Earth standard gravity	9.80665 m/s ²
h	Planck constant	$6.62606957 \times 10^{-34}$ J s
hbar	$\hbar/(2\pi)$	$1.054571726 \times 10^{-34}$ J s
i	Imaginary number	dcomplex(0,1)
k	Boltzmann constant R/N_A	$1.3806488 \times 10^{-23}$ J/K
ly	Light-year distance	$9.460730472580800 \times 10^{15}$ m
M_earth	Earth mass	$5.972186390 \times 10^{24}$ kg
M_sun	Sun mass	$1.98841586057 \times 10^{30}$ kg
me	electron mass	$9.10938291 \times 10^{-31}$ kg
mn	neutron mass	$1.674927351 \times 10^{-27}$ kg
mp	proton mass	$1.672621777 \times 10^{-27}$ kg
mu0	magnetic vacuum permeability	$12.566370614 \times 10^{-7}$ N/A ²
no	Loschmidt's number $N_A p_0 / (RT_0)$	2.6867805×10^{25} m ⁻³
Na	Avogadro constant N_A	$6.02214129 \times 10^{23}$ mol ⁻¹
p0	Standard atmosphere	101325 Pa
parsec	Parsec distance	$3.0856775814671912 \times 10^{16}$ m
phi	golden ratio	1.6180339887498948
pi	π	3.1415926535897932
R	molar gas constant	8.3144621 J/mol/K
R_earth	Earth radius (spherical)	6378136.6 m
re	classical electron radius	$2.8179403267 \times 10^{-15}$ m
RtoD	Radians to degrees	57.295779513082323
rydberg	Rydberg constant R_∞	10973731.568539 m ⁻¹
sigma	Stefan-Boltzmann constant	5.670373×10^{-8} W/m ² /K ⁴
To	Standard temperature	273.15 K
u	unified atomic mass unit	$1.660538921 \times 10^{-27}$ kg
Vm	Molar volume, ideal gas at STP	22.413968×10^{-3} m ³ /mol