COMMON FUNDAMENTAL PHYSICAL CONSTANTS (C4)

Constant	Constant Symbol	Numerical Value
Unperturbed Ground State Hyperfine Transition Frequency of the Caesium 133 Atom	Δv_{Cs}	9 192 631 770 Hz
Speed of Light in Vacuum	c	299 792 458 m/s
Planck Constant	h	$6.626\,070\,15 \times 10^{-34}$ J s
Elementary Charge	e	$1.602\,176\,634 \times 10^{-19}$ C
Boltzmann Constant	k	$1.380\,649 \times 10^{-23}$ J/K
Avogadro Constant	N_{A}	$6.022\,140\,76 \times 10^{23}$ mol^{-1}
Luminous Efficacy of Monochromatic Radiation of Frequency $\mathbf{540 \times 10^{12}\ Hz}$	K_{cd}	683 lm/W
Standard Acceleration of Gravity	g_n	$9.806\,65\ m/s^2$
Molar Mass Constant	M_u	$0.999\,999\,999\,65(30) \times 10^{-3}$ kg/mol
Pi	π	3.141 592 653 589 793

Notes:

- Pi (π) is an irrational number with a supposed infinite number of decimal places, the first 12 decimal places provided are reccomended for use by NASA in a large number of applications. If a larger number of decimal places are required, they are readily available from many online locations. For most non-sensitive calculations, the value of pi can be considered as the numerical value 3.

Sources:

- Constant [1] [2] [4]
- Constant Symbol [1] [2] [4]
- Numerical Value [1] [2] [3] [4]