

Unit Conversions

Quantity	SI Units	Traditional Units
Activity	1 becquerel (Bq)	= 2.703×10^{-11} curies (Ci)
	3.7×10^{10} Bq	= 1 Ci
	1 MBq	= 27.03 μ Ci
	37 MBq	= 1 mCi
Absorbed Dose	1 gray (Gy)	= 100 rads
	1×10^{-2} Gy	= 1 rad
	1 mGy	= 0.1 rad
Equivalent Dose, Effective Dose	1 sievert (Sv)	= 100 rems
	1×10^{-2} Sv	= 1 rem
	1 mSv	= 0.1 rem
Exposure	1 C/kg air	= 3876 roentgen (R)
	2.58×10^{-4} C/kg air	= 1 R
Energy	1 joule (J)	= 6.242×10^{18} electron volts (eV)
	1.602×10^{-19} J	= 1 eV
Mass*	1 kilogram (kg)	= 6.02214×10^{26} unified atomic mass units (u)
	1.66054×10^{-27} kg	= 1 u
Pressure	1 pascal (Pa)	= 7.501×10^{-3} mm Hg (torr)
	1.333×10^2 pascals (Pa)	= 1 mm Hg (torr)
	1 Pa	= 9.869×10^{-6} atmospheres (atm)
	1.013×10^5 Pa	= 1 atm
Area	1 square meter (m ²)	= 1×10^{28} barns
	1×10^{-28} m ²	= 1 barn
Temperature*	x kelvin (K)	= $x - 273.15$ degrees centigrade (°C)
	$x + 273.15$ K	= x °C
Magnetic Flux Density	1 tesla (T)	= 1×10^4 gauss (G)
	1×10^{-4} T	= 1 G

*Note that mass and temperature are the only SI base units in this table. All others are derived from these and/or the five other SI base units.

A useful source of further information on SI units and unit conversions is the National Institute of Standards and Technology website, <http://physics.nist.gov/cuu/Units/index.html>. Accessed 4 November 2011.