

SI Units and Conversion Factors

These conversion factors are given with more significant figures than those typically used in the body of the text.

Length

SI Unit: Meter (m)

1 meter	=	1.0936 yards
1 centimeter	=	0.39370 inch
1 inch	=	2.54 centimeters (exactly)
1 kilometer	=	0.62137 mile
1 mile	=	5280 feet
	=	1.6093 kilometers

Volume

SI Unit: Cubic Meter (m³)

1 liter	=	10 ⁻³ m ³
	=	1 dm ³
	=	1.0567 quarts
1 gallon	=	4 quarts
	=	8 pints
	=	3.7854 liters
1 quart	=	32 fluid ounces
	=	0.94635 liter

Mass

SI Unit: Kilogram (kg)

1 kilogram	=	1000 grams
1 pound	=	453.59 grams
	=	0.45359 kilogram
	=	16 ounces
1 atomic mass unit	=	1.66057 × 10 ⁻²⁷ kilograms

Pressure

SI Unit: Pascal (Pa)

1 atmosphere	=	101.325 kilopascals
	=	760 torr (mm Hg)
	=	14.70 pounds per square inch

Energy

SI Unit: Joule (J)

1 joule	=	0.23901 calorie
1 calorie	=	4.184 joules