

# SI Units of Measurement

Name	Measurement	Symbol
ampere	electric current	A
ampere per square metre	density	A m <sup>-2</sup>
candela	luminous intensity	cd
candela per square metre	luminance	cd m <sup>-2</sup>
cubic metre	volume	m <sup>3</sup>
cubic metre per kilogram	specific volume	m <sup>3</sup> kg <sup>-1</sup>
kelvin	thermodynamic temperature	K
kilogram	mass	kg
metre	length	m
metre per second	velocity	m s <sup>-1</sup>
metre per second squared	acceleration	m s <sup>-2</sup>
mole	amount of substance	mol
mole per cubic metre	concentration	mol m <sup>-3</sup>
per metre	wave number	m <sup>-1</sup>
second	time	s
square metre	area	m <sup>2</sup>

# Units of Measurement (by SI unit)

$\text{m}^3$  (cubic metre) volume

$\text{m}^2$  (square metre) area

A (ampere) electric current

$\text{A m}^{-2}$  (ampere per square metre) density

cd (candela) luminous intensity

$\text{cd m}^{-2}$  (candela per square metre) luminance

K (kelvin) thermodynamic temperature

kg (kilogram) mass

m (metre) length

$\text{m s}^{-2}$  (metre per second squared) acceleration

$\text{m s}^{-1}$  (metre per second) velocity

$\text{m}^{-1}$  (per metre) wave number

$\text{m}^3 \text{kg}^{-1}$  (cubic metre per kilogram) specific volume

mol (mole) amount of substance

$\text{mol m}^{-3}$  (mole per cubic metre) concentration

s (second) time