

Helpful Information on Units of Measure and Conversions

UNITS OF RADIATION MEASUREMENT AND CONVERSIONS

U.S. System	International System	Conversion
curie (Ci)	becquerel (Bq)	1 Ci = 3.7×10^{10} Bq
rad	gray (Gy)	1 rad = 0.01 Gy
rem	sievert (Sv)	1 rem = 0.01 Sv

APPROXIMATE METRIC CONVERSIONS

When you know	multiply by	to obtain	When you know	multiply by	to obtain
centimeters (cm)	0.39	inches (in.)	in.	2.54	cm
meters (m)	3.28	feet (ft)	ft	0.305	m
kilometers (km)	0.62	miles (mi)	mi	1.61	km
kilograms (kg)	2.20	pounds (lb)	lb	0.45	kg
liters (L)	0.264	gallons (gal)	gal	3.785	L
cubic meters (m ³)	35.32	cubic feet (ft ³)	ft ³	0.03	m ³
hectares (ha)	2.47	acres	acres	0.40	ha
square kilometers (km ²)	0.39	square miles (mi ²)	mi ²	2.59	km ²
degrees Celcius (°C)	1.8 (°C) + 32	degrees Fahrenheit (°F)	°F	(°F - 32) / 1.8	°C

SCIENTIFIC NOTATION USED FOR MEASUREMENTS

Multiple	Decimal Equivalent	Notation	Prefix	Symbol
1 x 10 ³	1,000	E+03	kilo-	k
1 x 10 ⁻²	0.01	E-02	centi-	c
1 x 10 ⁻³	0.001	E-03	milli-	m
1 x 10 ⁻⁶	0.000001	E-06	micro-	μ
1 x 10 ⁻⁹	0.000000001	E-09	nano-	n
1 x 10 ⁻¹²	0.000000000001	E-12	pico-	p

CONCENTRATION CONVERSIONS

1 ppm = 1,000 ppb
1 ppb = 0.001 ppm = 1 μg/L*
1 ppm = 1 mg/L = 1000 μg/L*

* For aqueous fractions only.

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