

UNIT CONVERSION TABLES

The following tables provide multiplication factors for converting values of a physical quantity from one unit to another. The tables are not comprehensive but include many of the units commonly encountered in water treatment.

In addition to the conversion factors listed in the Tables, temperatures can be converted between Fahrenheit (°F) and Centigrade or Celsius (°C) using the following relationships:

$$\begin{aligned} ^\circ\text{F} &= 1.8 \times ^\circ\text{C} + 32 \\ ^\circ\text{C} &= (^\circ\text{F} - 32) \times 0.556 \end{aligned}$$

Conversion factors for units of area

A	B	To convert from A to B, Multiply A by:	To convert from B to A, Multiply B by:
Cm ²	In ²	0.155	6.452
Cm ²	In ²	0.00108	929.03
M ²	Ft ²	10.764	0.0929
In ²	Ft ²	0.00694	144

Conversion factors for units of concentration

A	B	To convert from A to B, Multiply A by:	To convert from B to A, Multiply B by:
Mg/dL	Ppm	10	0.1
Mg/dL	G/L	0.01	100
Mg/L	%	0.0001	10000
Mg/L	Ppm	1	1

Conversion factors for units of flow rate

A	B	To convert from A to B, Multiply A by:	To convert from B to A, Multiply B by:
Gpm	L/min	3.785	0.2642
Ft ³ /min	L/min	28.32	0.0353
Ft ³ /min	Gpm	7.481	0.1337

Conversion factors for units of length

A	B	To convert from A to B, Multiply A by:	To convert from B to A, Multiply B by:
Cm	In	0.3937	2.54
Cm	Ft	0.03281	30.48
M	Ft	3.281	0.3048

Conversion factors for units of mass

A	B	To convert from A to B, Multiply A by:	To convert from B to A, Multiply B by:
G	Lb	0.0022	453.6
Kg	Lb	2.205	0.4536

Conversion factors for units of pressure

A	B	To convert from A to B, Multiply A by:	To convert from B to A, Multiply B by:
Psi (lb/in ²)	Ft H ₂ O	2.307	0.4335
Psi	KPa	6.895	0.145

Conversion factors for units of velocity

A	B	To convert from A to B, Multiply A by:	To convert from B to A, Multiply B by:
Ft/min	Cm/sec	0.508	1.969
Ft/sec	Cm/sec	30.48	0.0328
Ft/min	Gpm/ft ²	7.481	0.1337
Ft/sec	Gpm/ft ²	448.9	0.00223
Cm/sec	Gpm/ft ²	14.73	0.0679

Conversion factors for units of volume

A	B	To convert from A to B, Multiply A by:	To convert from B to A, Multiply B by:
Gal	L	3.785	0.2642
Gal	Ft ³	0.1337	7.481
Ft ³	L	28.32	0.03532