SOME COMMONLY USED CONVERSIONS AND REFERENCES

Metric Units

Prefix	Symbol	Multiplier
atto-	a	x 10^{-18}
femto-	f	x 10^{-15}
pico-	p	x 10^{-12}
nano-	n	x 10^{-9}
micro-	μ	x 10^{-6}
milli-	m	x 10^{-3}
centi-	c	x 10^{-2}
deci-	d	x 10^{-1}

Prefix	Symbol	Multiplier
deka-	D	x 10^{1}
hecto-	H	x 10^{2}
kilo-	K	x 10^{3}
mega-	M	x 10^{6}
giga-	G	x 10^{9}
tera-	T	x 10^{12}
peta-	P	x 10^{15}
exa-	E	x 10^{18}

Common Conversions

Length to volume: 1 cm^3 = 1 mL (= 1 g water); 1 dm^3 = 1 L (= 1 kg water)

Temperature: K = ^0C + 273 $^0F = (^0C \times 9/5) + 32$; $^0C = (^0F - 32) \times 5/9$

English Conversions

1 ft = 12 inches	3 ft = 1 yard	1 mile = 5,280 feet
16 oz = 1 lb	1 English ton = 2,000 lbs	4 qt. = 1 gallon

English to Metric Conversions

Linear	1 inch = 2.54 cm	1 yard = 0.9144 m	1 m = 3.281 ft.
Mass	1 g = 0.034 oz.	1 kg = 2.2 lbs	1 metric ton = 2,205 lb
Pressure	760 mm Hg = 1 atm	14.7 psi = 1 atm	1 atm = 101.3 kPa
Volume	1 gallon = 3.785 L	1 mL = 0.034 oz.	1 cm^3 = 0.0610 in^3

Commonly Used Polyatomic Ions

Acetate: CH_3COO^{-1} or $C_2H_3O_2^{-1}$	Ammonium: NH_4^{+1}	Carbonate: CO_3^{-2}	Chromate: CrO_4^{-2}	Chlorate: ClO_3^{-1}	Chlorite: ClO_2^{-1}
Cyanide: CN^{-1}	Dichromate: $Cr_2O_7^{-2}$	Hydronium: H_3O^{1+}	Hydroxide: OH^{-1}	Hypochlorite: ClO^{-1}	Iodate: IO_3^{-1}
Mercury (I): Hg_2^{2+}	Mercury (II): Hg^{2+}	Nitrate: NO_3^{-1}	Nitrite: NO_2^{-1}	Oxalate: $C_2O_4^{-2}$	Perchlorate: ClO_4^{-1}
Permanganate: MnO_4^{-1}	Peroxide: O_2^{-2}	Phosphate: PO_4^{-3}	Sulfate: SO_4^{-2}	Sulfite: SO_3^{-2}	Thiosulfate: $S_2O_3^{-2}$