Temperature

	To Obtain			
	Celsius, °C	**Fahrenheit, °F**	**Kelvin, °K**	**Rankine, °R**
	Multiply By			
Celsius, °C	–	°F = (°C x 1.8) + 32	°K = °C + 273.16	°R = (°C + 273.16) x 1.8
Fahrenheit, °F	°C = (°F - 32)/1.8	–	°K = ((°F -32)/1.8) + 273.16	°R = °F + 459.69
Kelvin, °K	°C = °K - 273.16	°F = ((°K - 273.16) x 1.8) + 32	–	°R = °K x 1.8
Rankine, °R	°C = (°R/1.8) - 273.16	°F = °R - 459.69	°K = °R/1.8	–

Volume

	To Obtain						
	cm^3*	**ft^3**	**in^3**	**m^3**	**gal (U.S. Liquid)**	**L**	**gal (Imperial)**
	Multiply By						
cm^3*	–	0.00003531	0.0610237	0.000001	0.0002641	0.001	0.0002199
ft^3	28,316.847	–	1728	0.02831685	7.480519	28.316847	6.229
in^3	16.387064	0.0005787	–	0.00001637	0.0043290	0.0163871	0.003605
m^3	1,000,000	35.31467	61,023.74	–	264.172	1000	220.0
gal (U.S. Liquid)	3785.4123	0.13368056	231	0.00378541	–	3.785412	0.8327
L	1000	0.03531467	61.02374	0.001	0.2641721	–	0.2200
gal (Imperial)	4546.10	0.1605	277.40	0.004546	1.201	4.546	–

* 1 cm^3 = 1 ml

Mass and Weight

	To Obtain						
	mg	**g**	**kg**	**oz***	**lb***	**ton (short, U.S.)**	**ton (long, metric)**
	Multiply By						
mg	–	0.001	0.000001	3.5274×10^{-5}	2.2046×10^{-8}	1.102×10^{-9}	1×10^{-9}
g	1000	–	0.001	0.0352740	0.0022046	1.102×10^{-8}	1×10^{-6}
kg	1,000,000	1000	–	35.273962	2.2046226	0.0011023	1×10^{-3}
oz*	28,349.5	28.34952	0.0283495	–	0.0625	3.125×10^{-5}	2.83×10^{-5}
lb*	453,592	453.59237	0.4535924	16	–	0.0005	4.535×10^{-4}
ton (short, U.S.)	9.07185×10^{8}	907.185	907.18474	32,000	2000	–	0.907
ton (long, metric)	1×10^{9}	1×10^{6}	1000	35,274	2205	1.102	–

*avoirdupois

Concentration Equivalents

Concentration		Equivalent
1,000,000 ppm	=	100.00%
100,000 ppm	=	10.0%
10,000 ppm	=	1.0%
1,000 ppm	=	0.1%
100 ppm	=	0.01%
10 ppm	=	0.001%
1 ppm	=	0.0001%

Concentration		Equivalent
1,000 ppb	=	1 ppm
100 ppb	=	0.1 ppm
10 ppb	=	0.01 ppm
1 ppb	=	0.001 ppm
1,000 ppt	=	0.001ppm
100 ppt	=	0.0001ppm
10 ppt	=	0.00001ppm
1 ppt	=	0.000001ppm
1,000 ppt	=	1 ppb
100 ppt	=	0.1 ppb
10 ppt	=	0.01 ppb
1 ppt	=	0.001 ppb

Exponential Equivalents

Scientific Notation	Equivalent
1×10^{10}	10,000,000,000
1×10^{9}	1,000,000,000
1×10^{8}	100,000,000
1×10^{7}	10,000,000
1×10^{6}	1,000,000
1×10^{5}	100,000
1×10^{4}	10,000
1×10^{3}	1,000
1×10^{2}	100
1×10^{1}	10
1×10^{0}	1

Scientific Notation	Equivalent Notation
1×10^{0}	1
1×10^{-1}	0.1
1×10^{-2}	0.01
1×10^{-3}	0.001
1×10^{-4}	0.0001
1×10^{-5}	0.00001
1×10^{-6}	0.000001
1×10^{-7}	0.0000001
1×10^{-8}	0.00000001
1×10^{-9}	0.000000001
1×10^{-10}	0.0000000001