

CONVERSION TABLES

Table 1: Multiples and Submultiples of SI units

Prefix	Symbol		Multiplying Factor
exa	E	10 ¹⁸	1 000 000 000 000 000 000
peta	P	10 ¹⁵	1 000 000 000 000 000
tera	T	10 ¹²	1 000 000 000 000
giga	G	10 ⁹	1 000 000 000
mega	M	10 ⁶	1 000 000
kilo	k	10 ³	1 000
hecto*	h	10 ²	100
deca*	da	10	10
deci*	d	10 ⁻¹	0.1
centi	c	10 ⁻²	0.01
milli	m	10 ⁻³	0.001
micro	u	10 ⁻⁶	0.000 001
nano	n	10 ⁻⁹	0.000 000 001
pico	p	10 ⁻¹²	0.000 000 000 001
femto	f	10 ⁻¹⁵	0.000 000 000 000 001
tto	a	10 ⁻¹⁸	0.000 000 000 000 000 001

* these prefixes are not normally used

Table 2: Area Units

Millimetre square mm ²	Centimetre square cm ²	Metre square m ²	Inch square in ²	Foot square ft ²	Yard square yd ²
1	0.01	0.000001	0.00155	0.000011	0.000001
100	1 0.0001	0.155	0.001076	0.00012	
1000000	10000	1	1550.003	10.76391	1.19599
645.16	6.4516	0.000645	1	0.006944	0.000772
92903	929.0304	0.092903	144	1	0.111111
836127	8361.274	0.836127	1296	9	1

Table 3: Volume Units

Centimetre cube cm ³	Metre cube m ³	Litre ltr	Inch cube in ³	Foot cube ft ³	US gallons US gal	Imperial gallons imp. gal	US barrel (oil) US brl
1	0.000001	0.001	0.061024	0.000035	0.000264	0.00022	0.000006
1000000	1	1000	61024	35	264	220	6.29
1000	0.001	1	61	0.035	0.264201	0.22	0.00629
16.4	0.000016	0.016387	1	0.000579	0.004329	0.003605	0.000103
28317	0.028317	28.31685	1728	1	7.481333	6.229712	0.178127
3785	0.003785	3.79	231	0.13	1	0.832701	0.02381
4545	0.004545	4.55	277	0.16	1.20	1	0.028593
158970	0.15897	159	9701	6	42	35	1

Table 4: Mass Units

Grams g	Kilograms kg	Metric tonnes tonne	Short ton shton	Long ton Lton	Pounds lb	Ounces oz
1	0.001	0.000001	0.000001	9.84e-07	0.002205	0.035273
1000	1	0.001	0.001102	0.000984	2.204586	35.27337
1000000	1000	1	1.102293	0.984252	2204.586	35273.37
907200	907.2	0.9072	1	0.892913	2000	32000
1016000	1016	1.016	1.119929	1	2239.859	35837.74
453.6	0.4536	0.000454	0.0005	0.000446	1	16
28	0.02835	0.000028	0.000031	0.000028	0.0625	1

Table 5: Density Units

Gram/millilitre g/ml	Kilogram/metre cube kg/m ³	Pound/foot cube lb/ft ³	Pound/inch cube lb/in ³
1	1000	62.42197	0.036127
0.001	1	0.062422	0.000036
0.01602	16.02	1	0.000579
27.68	27680	1727.84	1

Table 6: Volumetric Gas Flow Units

Normal metre cube/hour Nm ³ /hr	Standard cubic feet/hour sc/fh	Standard cubic feet/minute sc/fm
1	35.31073	0.588582
0.02832	1	0.016669
1.699	59.99294	1