



GENERAL CONVERSION TABLES

To convert from one set of units, A, to a new set, B, find the conversion factor for the row A under Column B and multiply the initial value by the

conversion factor. For example, to convert inches to centimeters, multiply by 2.54.

LENGTH

A \ B	millimeter mm	centimeter cm	meter m	inch in	foot ft	yard yd
mm	1	1.000×10^{-1}	1.000×10^{-3}	3.937×10^{-2}	3.281×10^{-3}	1.094×10^{-3}
cm	1.000×10^1	1	1.000×10^{-2}	3.937×10^{-1}	3.281×10^{-2}	1.094×10^{-2}
m	1.000×10^3	1.000×10^2	1	3.937×10^1	3.281	1.094
in	2.540×10^1	2.540	2.540×10^{-2}	1	8.333×10^{-2}	2.778×10^{-2}
ft	3.048×10^2	3.048×10^1	3.048×10^{-1}	1.200×10^1	1	3.333×10^{-1}
yd	9.144×10^2	9.144×10^1	9.144×10^{-1}	3.600×10^1	3.000	1

AREA

A \ B	square millimeter mm ²	square centimeter cm ²	square meter m ²	square inch in ²	square foot ft ²	square yard yd ²
mm ²	1	1.000×10^{-2}	1.000×10^{-6}	1.550×10^{-3}	1.076×10^{-5}	1.196×10^{-6}
cm ²	1.000×10^2	1	1.000×10^{-4}	1.550×10^{-1}	1.076×10^{-3}	1.196×10^{-4}
m ²	1.000×10^6	1.000×10^4	1	1.550×10^3	1.076×10^1	1.196
in ²	6.452×10^2	6.452	6.452×10^{-4}	1	6.944×10^{-3}	7.716×10^{-4}
ft ²	9.290×10^4	9.290×10^2	9.290×10^{-2}	1.440×10^2	1	1.111×10^{-1}
yd ²	8.361×10^5	8.361×10^3	8.361×10^{-1}	1.296×10^3	9.000	1

VOLUME

A \ B	cubic meter m ³	liter l	milliliter ml	U.K. gallon (liquid) U.K. gal	cubic foot ft ³	U.S. gallon (liquid) U.S. gal
m ³	1	1.000×10^3	1.000×10^6	2.200×10^2	3.531×10^1	2.642×10^2
l	1.000×10^{-3}	1	1.000×10^3	2.200×10^{-1}	3.531×10^{-2}	2.642×10^{-1}
ml	1.000×10^{-6}	1.000×10^{-3}	1	2.200×10^{-4}	3.531×10^{-5}	2.642×10^{-4}
U.K. gal	4.546×10^{-3}	4.546	4.546×10^3	1	1.605×10^{-1}	1.201
ft ³	2.832×10^{-2}	2.832×10^1	2.832×10^4	6.229	1	7.481
U.S. gal	3.785×10^{-3}	3.785	3.785×10^3	8.327×10^{-1}	1.337×10^{-1}	1

TEMPERATURE

TO CONVERT FROM:	TO:	
degree Celsius (°C)	degree Kelvin (°K)	$T_K = T_C + 273.15$
degree Fahrenheit (°F)	degree Celsius (°C)	$T_C = (T_F - 32) / 1.8$
degree Fahrenheit (°F)	degree Kelvin (°K)	$T_K = (T_F + 459.67) / 1.8$
degree Rankin (°R)	degree Kelvin (°K)	$T_K = T_R / 1.8$
degree Kelvin (°K)	degree Celsius (°C)	$T_C = T_K - 273.15$
degree Celsius (°C)	degree Fahrenheit (°F)	$T_F = (T_C \times 1.8) + 32$

GAUGE PRESSURE

A \ B	megapascal MPa	kilopascal kPa	pascal Pa	bar bar	kilograms force per square centimeter kgf/cm ²	pounds per square inch psi
MPa	1	1.000 x 10 ³	1.000 x 10 ⁶	1.000 x 10 ¹	1.020 x 10 ¹	1.450 x 10 ²
kPa	1.000 x 10 ⁻³	1	1.000 x 10 ³	1.000 x 10 ⁻²	1.020 x 10 ⁻²	1.450 x 10 ⁻¹
Pa	1.000 x 10 ⁻⁶	1.000 x 10 ⁻³	1	1.000 x 10 ⁻⁵	1.020 x 10 ⁻⁵	1.450 x 10 ⁻⁴
bar	1.000 x 10 ⁻¹	1.000 x 10 ²	1.000 x 10 ⁵	1	1.020	1.450 x 10 ¹
kgf/cm ²	9.807 x 10 ⁻²	9.807 x 10 ¹	9.807 x 10 ⁴	9.807 x 10 ⁻¹	1	1.422 x 10 ¹
psi	6.895 x 10 ⁻³	6.895	6.895 x 10 ³	6.895 x 10 ⁻²	7.031 x 10 ⁻²	1

MASS FLOW RATE

A \ B	kilogram per second kg/s	kilogram per minute kg/min	kilogram per hour kg/h	pound mass per second lbm/s	pound mass per minute lbm/min	pound mass per hour lbm/h
kg/s	1	6.000 x 10 ¹	3.600 x 10 ³	2.205	1.323 x 10 ²	7.937 x 10 ³
kg/min	1.667 x 10 ⁻²	1	6.000 x 10 ¹	3.674 x 10 ⁻²	2.205	1.323 x 10 ²
kg/h	2.778 x 10 ⁻⁴	1.667 x 10 ⁻²	1	6.124 x 10 ⁻⁴	3.674 x 10 ⁻²	2.205
lbm/s	4.536 x 10 ⁻¹	2.722 x 10 ¹	1.633 x 10 ³	1	6.000 x 10 ¹	3.600 x 10 ³
lbm/min	7.560 x 10 ⁻³	4.536 x 10 ⁻¹	2.722 x 10 ¹	1.667 x 10 ⁻²	1	6.000 x 10 ¹
lbm/h	1.260 x 10 ⁻⁴	7.560 x 10 ⁻³	4.563 x 10 ⁻¹	2.778 x 10 ⁻⁴	1.667 x 10 ⁻²	1

VOLUMETRIC FLOW RATE

A \ B	liter per second l/s	liter per minute l/min	cubic meter per minute m ³ /min	U.K. liquid gallon per minute U.K. gal/min	cubic foot per second ft ³ /s	cubic foot per minute ft ³ /min	U.S. liquid gallon per minute gal/min
l/s	1	6.000 x 10 ¹	6.000 x 10 ⁻²	1.320 x 10 ¹	3.531 x 10 ⁻²	2.119	1.585 x 10 ¹
l/min	1.667 x 10 ⁻²	1	1.000 x 10 ⁻³	2.200 x 10 ⁻¹	5.886 x 10 ⁻⁴	3.531 x 10 ⁻²	2.642 x 10 ⁻¹
m ³ /min	1.667 x 10 ¹	1.000 x 10 ³	1	2.200 x 10 ²	5.886 x 10 ⁻¹	3.531 x 10 ¹	2.642 x 10 ²
U.K. gal/min	7.577 x 10 ⁻²	4.546	4.546 x 10 ⁻³	1	2.676 x 10 ⁻³	1.605 x 10 ⁻¹	1.201
ft ³ /s	2.832 x 10 ¹	1.699 x 10 ³	1.699	3.737 x 10 ²	1	6.000 x 10 ¹	4.488 x 10 ²
ft ³ /min	4.719 x 10 ⁻¹	2.832 x 10 ¹	2.832 x 10 ⁻²	6.229	1.667 x 10 ⁻²	1	7.481
U.S. gal/min	6.309 x 10 ⁻²	3.785	3.785 x 10 ⁻³	8.327 x 10 ⁻¹	2.228 x 10 ⁻³	1.337 x 10 ⁻¹	1

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