

Full Conversion Table (sorted by Measure Unit Name)

Unit	Formula	In SI	SI Unit	In CGS	CGS Unit	Category
abampere or biot (Bi)	10*ampere	10.0	A	1.0	abampere	Electric_current
abhenry		1.0E-9	m ² *kg/sec ² A ² (henry,H)	1.0	abhenry	Electric_inductance
abohm		1.0E-9	ohm	1.0	abohm	Electric_resistance
abvolt		1.0E-8	J/C(Volt,V)	1.0	abvolt	Electric_potential
acceleration of free fall (g or grav)		9.80665	m/sec ²	980.665	cm/sec ²	Acceleration
acre (ac or A)		4046.86	m ²	40468600.0	cm ²	Area
ampere hour (A h)		3600.0	coulomb(C)	3600.0	sec A	Electric_charge
area(a)		100.0	m ²	1000000.0	cm ²	Area
astronomical unit (ua or au)	92955807*mile	149597870691	m	14959787069100	cm	Distance_Length
atmosphere(atm)	101325	101325	kg/m*sec ² (PA)	1013250.0	g/cm*sec ²	Pressure
bar (b)		1.0E+5	kg/m*sec ² (PA)	1.0E+6	g/cm*sec ²	Pressure
barrel dry (bbl)	7056*I ³	0.115627	m ³	115627.0	cm ³	Volume
barrel fluid (bbl)	31.5*gallon	0.11924	m ³	119240.0	cm ³	Volume
barrel oil (bo)	42*gallon	0.158987	m ³	158987.0	cm ³	Volume
becquerel (Bq)		1.0	sec ⁻¹	1.0	sec ⁻¹	Radioactivity
bi weeks per year (bwpy)		26.1	units	26.1	units	Time_interval_units
biweek payroll (bwp)	10*day_payroll	288000.0	sec	288000.0	sec	Time_interval
british thermal unit (Btu) (39 F)		1059.67	m ² *kg/sec ² (Joule)	1.05967E+10	cm ² *g/sec ² (erg)	Energy
british thermal unit (Btu) (59 F)		1054.80	m ² *kg/sec ² (Joule)	1.05480E+10	cm ² *g/sec ² (erg)	Energy
british thermal unit (Btu) (60 F)		1054.68	m ² *kg/sec ² (Joule)	1.05468E+10	cm ² *g/sec ² (erg)	Energy
Unit	Formula	In SI	SI Unit	In CGS	CGS Unit	Category
british thermal unit (Btu) (Int'l Table)		1055.05585262	m ² *kg/sec ² (Joule)	10550558526.2	cm ² *g/sec ² (erg)	Energy
british thermal unit (Btu) (Thermochemical)		1054.35	m ² *kg/sec ² (Joule)	1.05435E+10	cm ² *g/sec ² (erg)	Energy
bushel dry (bu)		0.0352381	m ³	35238.1	cm ³	Volume
caliber (cal)	0.01*inch	0.000254	m	0.0254	cm	Distance_Length
calorie (cal 15) (15 C)		4.18580	m ² *kg/sec ² (Joule)	4.18580E+7	cm ² *g/sec ² (erg)	Energy
calorie (cal 20) (20 C)		4.18190	m ² *kg/sec ² (Joule)	4.18190E+7	cm ² *g/sec ² (erg)	Energy
Calorie (Cal or kcal) (nutrition) (Int'l Table)		4.1868E+03	m ² *kg/sec ² (Joule)	4.1868E+10	cm ² *g/sec ² (erg)	Energy
Calorie (Cal or kcal) (nutrition) (mean)		4.19002E+3	m ² *kg/sec ² (Joule)	4.19002E+10	cm ² *g/sec ² (erg)	Energy
Calorie (Cal or kcal) (nutrition) (Thermochemical)		4.184E+03	m ² *kg/sec ² (Joule)	4.184E+10	cm ² *g/sec ² (erg)	Energy
calorie (cal) (International Table)		4.1868	m ² *kg/sec ² (Joule)	4.1868E+7	cm ² *g/sec ² (erg)	Energy
calorie (cal) (mean)		4.19002	m ² *kg/sec ² (Joule)	4.19002E+7	cm ² *g/sec ² (erg)	Energy

calorie (cal) (Thermochemical)		4.184	m ² *kg/sec ² (Joule)	4.184E+7	cm ² *g/sec ² (erg)	Energy
carat(ct or c)	2E-4	0.0002	kg	0.2	g	Mass_Weight
centimeter (cm)	.01	0.01	m	1.0	cm	Distance_Length
centimeter mercury(cmHg)	atmosphere/76	1333.0	kg/m*sec ² (PA)	13330.0	g/cm*sec ²	Pressure
chain (ch) (Gunther's) (U.K.)	792*inch	20.1168	m	2011.68	cm	Distance_Length
chain (ch) (Ramsden's) (U.S.)	1200*inch	30.480	m	3048.0	cm	Distance_Length
cicero	corresponds to the pica	0.00452	m	0.452	cm	Distance_Length
cord (cd) (USA)	4feet*8feet*4feet	3.6247	m ³	3.6247E+6	cm ³	Volume
cord foot (cd ft)	4feet*1foot*4feet	0.4531	m ³	453100.0	cm ³	Volume

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coulomb (C)		1.0	coulomb(C)	1.0	sec A	Electric_charge
cubic centimeter (cm ³ or cc)	cm*cm*cm	1.0E-6	m ³	1.0	cm ³	Volume
cubic foot (f ³)	f*f*f	0.0283168	m ³	28316.8	cm ³	Volume
cubic inch (in ³ or cu in)	inch*inch*inch	1.63871E-5	m ³	16.3871	cm ³	Volume
cubic kilometer (km ³)	km*km*km	1.0E+9	m ³	1.0E+15	cm ³	Volume
cubic millimeter (mm ³)	mm*mm*mm	1.0E-9	m ³	1.0E-3	cm ³	Volume
cup (c)	8*ounce_fluid	0.000236587	m ³	236.587	cm ³	Volume
curie (Ci)	37*gigabecquerel	3.7E+10	sec ⁻¹	3.7E+10	sec ⁻¹	Radioactivity
day payroll(da)	8*hour	28800.0	sec	28800.0	sec	Time_interval
day(d)	24*hour	86400.0	sec	86400.0	sec	Time_interval
decimeter (dm)	.1	0.1	m	10.0	cm	Distance_Length
degree angular (° or deg)	quadrant/90	0.0174533	radian(rad)	0.0174533	radian(rad)	Angle
Didot point	0.013837*inch	0.0003514598	m	0.03514598	cm	Distance_Length
dollar1970	4.41799*current_\$	4.41799	U.S. Dollar	0.2645503	Dollar1914	Money
dollar1971	4.19598*current_\$	4.19598	U.S. Dollar	0.2512563	Dollar1914	Money
dollar1972	4.06326*current_\$	4.06326	U.S. Dollar	0.243309	Dollar1914	Money
dollar1973	3.92019*current_\$	3.92019	U.S. Dollar	0.2347419	Dollar1914	Money
dollar1974	3.58369*current_\$	3.58369	U.S. Dollar	0.2145922	Dollar1914	Money
dollar1975	3.20537*current_\$	3.20537	U.S. Dollar	0.1919383	Dollar1914	Money
dollar1976	3.00360*current_\$	3.0036	U.S. Dollar	0.1798563	Dollar1914	Money
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dollar1977	2.85470*current_\$	2.8547	U.S. Dollar	0.1709401	Dollar1914	Money
dollar1978	2.67200*current_\$	2.672	U.S. Dollar	0.16	Dollar1914	Money
dollar1979	2.44510*current_\$	2.4451	U.S. Dollar	0.1464132	Dollar1914	Money

dollar1980	2.14653*current_\$	2.14653	U.S. Dollar	0.1285347	Dollar1914	Money
dollar1981	1.91954*current_\$	1.91954	U.S. Dollar	0.1149425	Dollar1914	Money
dollar1982	1.77094*current_\$	1.77094	U.S. Dollar	0.1060443	Dollar1914	Money
dollar1983	1.70757*current_\$	1.70757	U.S. Dollar	0.1022497	Dollar1914	Money
dollar1984	1.63886*current_\$	1.63886	U.S. Dollar	9.813532E-02	Dollar1914	Money
dollar1985	1.58294*current_\$	1.58294	U.S. Dollar	9.478682E-02	Dollar1914	Money
dollar1986	1.52372*current_\$	1.52372	U.S. Dollar	9.124072E-02	Dollar1914	Money
dollar1987	1.50180*current_\$	1.5018	U.S. Dollar	8.992814E-02	Dollar1914	Money
dollar1988	1.44339*current_\$	1.44339	U.S. Dollar	8.643053E-02	Dollar1914	Money
dollar1989	1.37903*current_\$	1.37903	U.S. Dollar	8.257664E-02	Dollar1914	Money
dollar1990	1.31083*current_\$	1.31083	U.S. Dollar	7.849281E-02	Dollar1914	Money
dollar1991	1.24071*current_\$	1.24071	U.S. Dollar	7.429401E-02	Dollar1914	Money
dollar1992	1.20927*current_\$	1.20927	U.S. Dollar	7.241137E-02	Dollar1914	Money
dollar1993	1.17111*current_\$	1.17111	U.S. Dollar	7.012635E-02	Dollar1914	Money
dollar1994	1.14227*current_\$	1.14227	U.S. Dollar	0.0683994	Dollar1914	Money
dollar1995	1.11111*current_\$	1.11111	U.S. Dollar	6.653353E-02	Dollar1914	Money
dollar1996	1.08161*current_\$	1.08161	U.S. Dollar	6.476706E-02	Dollar1914	Money

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dollar1997	1.04965*current_\$	1.04965	U.S. Dollar	6.285328E-02	Dollar1914	Money
dollar1998	1.03342*current_\$	1.03342	U.S. Dollar	6.188143E-02	Dollar1914	Money
dollar1999	1.01643*current_\$	1.01643	U.S. Dollar	6.086407E-02	Dollar1914	Money
dram (avoirdupois)	ounce/16	1.7718451953125E-3	kg	1.7718451953125	g	Mass_Weight
dram (dr) (apothecaries)	ounce_troy/8	0.00388794	kg	3.88794	g	Mass_Weight
dram fluid (dr)	ounce_fluid/8	3.69668E-6	m ³	3.69668	cm ³	Volume
drop (gtt)	tsp/60	8.33333E-8	m ³	0.0833333	cm ³	Volume
dyne (dyn)	10 ⁻⁵ *newton	1.019716213E-6	kg	1.019716213E-3	g	Mass_Weight
electronvolt (eV)		1.602176462E-19	m ² *kg/sec ² (Joule)	1.602176462E-12	cm ² *g/sec ² (erg)	Energy
elementary charge (e)		1.6021776462E-19	coulomb(C)	1.6021776462E-19	sec A	Electric_charge
erg	0.1*microjoule	1.0E-7	m ² *kg/sec ² (Joule)	1.0	cm ² *g/sec ² (erg)	Energy
fathom (fth or fath)	6*foot	1.828804	m	182.8804	cm	Distance_Length
foot (ft or ')	.3048	0.30480	m	30.480	cm	Distance_Length
furlong (fur)	mi/8	201.0	m	20100.0	cm	Distance_Length
galileo (Gal or gal)		0.01	m/sec ²	1.0	cm/sec ²	Acceleration
gallon (gal)	231*cubic_inch	0.0037854	m ³	3785.4	cm ³	Volume
gallon (gal) (Imperial)	1.20095 * gallon & 1.03206 * gallon dry	4.54609E-3	m ³	4.54609E+3	cm ³	Volume

gallon dry (gal)	268.8025*cubic_inch	0.004404884	m ³	4404.884	cm ³	Volume
gauss (G or Gs)		1.0E-4	tesla(T)	1.0	dyn/A*cm(Gs)	Magnetic_flux_density
gill (gi)	4*ounce_fluid	1.182941E-04	m ³	1.182941E+2	cm ³	Volume
Unit	Formula	In SI	SI Unit	In CGS	CGS Unit	Category
gill (gi) (Imperial)	5*ounce_fluid	1.420653E-4	m ³	1.420653E+2	cm ³	Volume
gon or grade (° or grd)	0.9*degree_angular	0.015707963267949	radian(rad)	0.015707963267949	radian(rad)	Angle
grain (gr)	648E-7	6.48E-5	kg	0.0648	g	Mass_Weight
gram (g)	.001	0.001	kg	1.0	g	Mass_Weight
gram force or gram-weight	0.0022045*pound	1.0E-3	kg	1.0	g	Mass_Weight
hand	4*inch	0.1016	m	10.16	cm	Distance_Length
hectare (ha)	10000	10000.0	m ²	1.0E+8	cm ²	Area
horsepower US (CV)		735.7	m ² *kg/sec ³ (Watt)	7.357E+9	cm ² *g/sec ³	Power
hour (hr)		3600.0	sec	3600.0	sec	Time_interval
hourly pay (hp)	1/261/8	4.78927E-4	\$/sec	4.78927E-4	\$/sec	Finance
hundredweight long (Cwt) (U.K.)	112*pound	50.802304	kg	50802.304	g	Mass_Weight
hundredweight short (Cwt) (U.S.)	100*pound	45.3592	kg	45359.2	g	Mass_Weight
inch (in or ")	.0254	0.0254	m	2.54	cm	Distance_Length
inch mercury (in Hg)	.03342*atmosphere	3386.28	kg/m*sec ² (PA)	33862.8	g/cm*sec ²	Pressure
inch of water (in WC)	.07355*inch_mercury	249.061	kg/m*sec ² (PA)	2490.61	g/cm*sec ²	Pressure
karat gold (kt)	1/24	0.0416667	1	4.16667	%	Percentage
kilogram (kg)	1	1.0	kg	1000.0	g	Mass_Weight
kilometer (km)	1000	1000.0	m	100000.0	cm	Distance_Length
kilometer per hour (km/h)		0.277778	m/sec	27.7778	cm/sec	Speed
kilowatt hour(kW·h)	3.6E+6	3600000.0	m ² *kg/sec ² (Joule)	3.6E+13	cm ² *g/sec ² (erg)	Energy
Unit	Formula	In SI	SI Unit	In CGS	CGS Unit	Category
knot(kn or kt)	nautical_mile/hour	0.514444	m/sec	51.4444	cm/sec	Speed
lambert (Lb or La)		1.61028E+2	W/m ²	1.61028E+5	g/sec ³	Luminance
light year (ly)		9.46091E+15	m	9.46091E+17	cm	Distance_Length
line (li)	1/12*inch	2.116666666666667E-03	m	0.2116666666666667	cm	Distance_Length
link (for Gunther's chain)	.01*chain	0.201168	m	20.1168	cm	Distance_Length
link (for Ramden's chain)	.01*chain	0.201168	m	20.1168	cm	Distance_Length
liter (lt)		0.001	m ³	1000.0	cm ³	Volume
lumen (lm) (SI)		0.001496	W	14960.0	cm ² *g/sec ³	Luminous_flux
lux (lx) (SI)	lumen/square_foot	0.0161028	W/m ²	16.1028	g/sec ³	Illumination

mach (ma)		331.0	m/sec	33100.0	cm/sec	Speed
meter (m)		1.0	m	100.0	cm	Distance_Length
micron (μ)	1E-6	1.0E-6	m	1.0E-4	cm	Distance_Length
mil (U.S.) or thou (U.K.)	0.001*inch	25.4E-3	m	2.54	cm	Distance_Length
mile (mi)	5280*foot	1609.344	m	160934.4	cm	Distance_Length
mile per hour (mph)	mile/hour	0.447028	m/sec	44.7028	cm/sec	Speed
milligram (mg)	1E-6	1.0E-6	kg	1.0E-3	g	Mass_Weight
millimeter (mm)	.001	0.001	m	0.1	cm	Distance_Length
millimeter of mercury (mm Hg)		133.322368421	kg/m*sec ² (PA)	1333.22368421	g/cm*sec ²	Pressure
minute (' or m)	1/60*degree_angular	2.90888208665722E-4	radian(rad)	2.90888208665722E-4	radian(rad)	Angle
month(mo or mon)	year/12	2629743.0	sec	2629743.0	sec	Time_interval

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nanometer (nm)	1E-9	1.0E-9	m	1.0E-7	cm	Distance_Length
nautical mile (nmi or NM)		1852.0	m	185200.0	cm	Distance_Length
newton (N)	10 ⁵ *dyne	0.1019716213	kg	101.9716213	g	Mass_Weight
oersted (Oe)		7.957747E+1	A/m	0.7957747	A/cm	Magnetic_field_strength
ounce (oz)		0.0283495	kg	28.3495	g	Mass_Weight
ounce apothecaries (oz)		0.03083	kg	30.83	g	Mass_Weight
ounce fluid (froz)	gal/4/32	2.95734E-5	m ³	29.5734	cm ³	Volume
ounce troy (troz)		0.0311035	kg	31.1035	g	Mass_Weight
parsec (pc)	3.084E+15	3.084E+15	m	3.084E+17	cm	Distance_Length
part per billion (ppb)	1E-9	1.0E-9	1	1.0E-7	%	Percentage
part per million (ppm)	1E-6	1.0E-6	1	1.0E-4	%	Percentage
part per trillion (ppt)	1E-12	1.0E-12	1	1.0E-10	%	Percentage
peck UK (pk)		0.00909219858976	m ³	9092.19858976	cm ³	Volume
peck US (pk)	8*quart_dry	0.00880969	m ³	8809.69	cm ³	Volume
pennyweight (dwt or pwt)	ounce_troy/20	0.00155518	kg	1.55518	g	Mass_Weight
per mill (roughly, 0/00)	.001	1.0E-3	1	0.1	%	Percentage
percent (% or pct)	.01	0.01	1	1.0	%	Percentage
phot (ph)	10000*lux	1.0E+4	W/m ²	1.0E+7	g/sec ³	Luminance
pica (pi) or em	12*point	0.00421752	m	0.421752	cm	Distance_Length
pint (pt)	4732E-7	0.0004732	m ³	473.2	cm ³	Volume

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pint dry (pt)	5506E-7	0.0005506	m ³	550.6	cm ³	Volume

point (pt) (British & American)	inch/72	0.0003514598	m	0.03514598	cm	Distance_Length
pound (lb or #)	16*ounce	0.453592	kg	453.592	g	Mass_Weight
pound per square inch (psi)		6894.75729316836	kg/m*sec ² (PA)	68947.5729316836	g/cm*sec ²	Pressure
proof (prf)	percent*2	0.005	1	2.0	%	Percentage
quadrant (quad)	3.14159265/2	1.5708	radian(rad)	1.5708	radian(rad)	Angle
quart dry (qt)	67.2*i ³	0.00110121	m ³	1101.21	cm ³	Volume
quart fluid (qt)	gallon/4	0.00094635	m ³	946.35	cm ³	Volume
revolution (r)	360*degree_angular	6.28319	radian(rad)	6.28319	radian(rad)	Angle
second (" or s or sec)	1/60*minute_angular	4.848136811E-6	radian(rad)	4.848136811E-6	radian(rad)	Angle
sheet	pound/700	0.000647989	kg	0.647989	g	Mass_Weight
square centimeter (cm ²)	cm*cm	0.0001	m ²	1.0	cm ²	Area
square foot (f ²)	f*f	0.092903	m ²	929.030	cm ²	Area
square inch (in ²)		0.00064516	m ²	6.4516	cm ²	Area
square kilometer (km ²)	km*km	1.0E+6	m ²	1.0E+10	cm ²	Area
square mile (mi ² or sq mi)	mi*mi	2589846	m ²	25898460000.0	cm ²	Area
square millimeter (mm ²)	mm*mm	1.0E-6	m ²	1.0E-2	cm ²	Area
square yard (y ²)	.8361	0.8361	m ²	8361.0	cm ²	Area
stere (st)		1.0	m ³	1000000.0	cm ³	Volume
stone (st)	14*pound	6.35029318	kg	6350.29318	g	Mass_Weight
Unit	Formula	In SI	SI Unit	In CGS	CGS Unit	Category
tablespoonful (tbsp)	.015*liter	1.5E-5	m ³	15.0	cm ³	Volume
teaspoonful (tsp)	liter/200	5E-6	m ³	5.0	cm ³	Volume
tesla (T)		1.0	kg/sec ² *A(Wb/m ²)(T)	10000.0	gauss(Gs,G)	Flux_density
ton long (t or tn)	1016	1016.0	kg	1016000.0	g	Mass_Weight
ton metric (t or tn)	1000	1000	kg	1000000.0	g	Mass_Weight
ton short (t)	907.2	907.2	kg	907200.0	g	Mass_Weight
yard (yd)	.9144	0.9144	m	91.44	cm	Distance_Length
year (a or y or yr)	365.2422*day	3.15569E+7	sec	3.15569E+7	sec	Time_interval
year payroll (yp)	261*day_payroll	7516800.0	sec	7516800.0	sec	Time_interval
year payroll academic (ypa)	195*day_payroll	5616000.0	sec	5616000.0	sec	Time_interval
year short (ye)	365*day	31536000.0	sec	31536000.0	sec	Time_interval