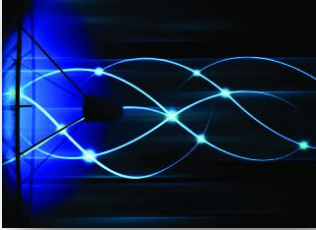
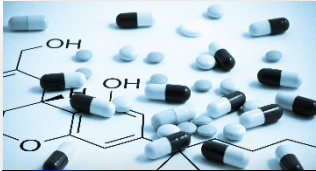


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## Length

Unit = fathom (marine depth)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1.8288

Unit = earthradius (geocentric distance)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 63781403

Unit = solarradius (heliocentric distance)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 6.962743E+08

Unit = earthradii (geocentric distance)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 6378140

Unit = solarradii (heliocentric distance)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 6.962743E+08

Unit = m (meter)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1

Unit = meter  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1

Unit = metre  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1

Unit = A (angstrom)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1E-10

Unit = ang (angstrom)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1E-10

Unit = angstrom  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1E-10

Unit = mu (micron)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1E-06

Unit = E-03mm  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1E-06

Unit = micron  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1E-06

Unit = f (fermi)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1E-15

Unit = fermi  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1E-15

Unit = in (inch)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 0.0254

Unit = inch  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 0.0254

Unit = inches  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 0.0254

Unit = ft (feet)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 0.3048

Unit = 4ft  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 1.2192

Unit = foot  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 0.3048

Unit = feet  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 0.3048

Unit = yd (yard)  
Corresponding SI Dimension = m  
Unit to SI Dimension Factor = 0.9144

Unit = yard  
Corresponding SI Dimension = m

Unit to SI Dimension Factor = 0.9144

Unit = mi (mile)

Corresponding SI Dimension = m

Unit to SI Dimension Factor = 1609.344

Unit = mile

Corresponding SI Dimension = m

Unit to SI Dimension Factor = 1609.344

Unit = mil

Corresponding SI Dimension = m

Unit to SI Dimension Factor = 2.54E-05

Unit = AU (astronomical unit)

Corresponding SI Dimension = m

Unit to SI Dimension Factor = 1.49600E+11

Unit = pc (parsec)

Corresponding SI Dimension = m

Unit to SI Dimension Factor = 3.08568E+16

Unit = parsec

Corresponding SI Dimension = m

Unit to SI Dimension Factor = 3.08568E+16

Unit = ly (light year)

Corresponding SI Dimension = m

Unit to SI Dimension Factor = 9.46053E+15

## Area

Unit = m\*\*2

Corresponding SI Dimension = m\*\*2

Unit to SI Dimension Factor = 1

Unit = b (barn)

Corresponding SI Dimension = m\*\*2

Unit to SI Dimension Factor = 1E-28

Unit = acre

Corresponding SI Dimension = m\*\*2

Unit to SI Dimension Factor = 4.04686E+03

Unit = ha (hectare)

Corresponding SI Dimension = m\*\*2

Unit to SI Dimension Factor = 1E+4

Unit = barn

Corresponding SI Dimension = m\*\*2

Unit to SI Dimension Factor = 1E-28

Unit = a (are)

Corresponding SI Dimension = m\*\*2

Unit to SI Dimension Factor = 1E+02

Unit = are

Corresponding SI Dimension = m\*\*2

Unit to SI Dimension Factor = 1E+02

Unit = hectare

Corresponding SI Dimension = m\*\*2

Unit to SI Dimension Factor = 1E+04

Unit = cirmil (circular mil = area of a circle 1 mil in diameter)

Corresponding SI Dimension = m\*\*2

Unit to SI Dimension Factor = 5.0670748E-10 (CRC)

Unit = cirin (circular inch = area of a circle 1 in in diameter)

Corresponding SI Dimension = m\*\*2

Unit to SI Dimension Factor = 5.0670748E-04 (CRC)

## Volume

Unit = m\*\*3

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 1

Unit = L (liter)

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 1E-03

Unit = liter

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 1E-03

Unit = litre

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 1E-03

Unit = lambda

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 1E-09

Unit = liquidpint (US)

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 4.731765E-04

Unit = liqpt (US)

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 4.731765E-04

Unit = fluidounce (US)

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 2.9573516E-05

Unit = gal (US gallon)

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 3.78541E-03

Unit = gallUS

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 3.78541E-03

Unit = gallon (US gallon)

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 3.78541E-03

Unit = galUK (UK gallon)

Corresponding SI Dimension = m\*\*3

Unit to SI Dimension Factor = 4.54609E-03

Unit = gallonUK (UK gallon)  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 4.54609E-03

Unit = pt (US liquid pint)  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 4.7317625E-04

Unit = pint (US liquid pint)  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 4.7317625E-04

Unit = ptUK (UK liquid pint)  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 5.6826125E-04

Unit = pintUK  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 5.6826125E-04

Unit = floz (US fluid ounce)  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 2.9573516E-05

Unit = ozfl (US fluid ounce)  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 2.9573516E-05

Unit = flozUK (UK fluid ounce)  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 2.8413063E-05

Unit = ozflUK (UK fluid ounce)  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 2.8413063E-05

Unit = qt (US liquid quart)  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 9.46353E-04

Unit = quart  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 9.46353E-04

Unit = qtUK (UK liquid quart)  
Corresponding SI Dimension = m\*\*3  
Unit to SI Dimension Factor = 1.1365225E-03

Unit = quartUK



Corresponding SI Dimension =  $m^3$

Unit to SI Dimension Factor = 1.1365225E-03

## Mass

Unit = kg (kilogram)  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1

Unit = kilogram  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1

Unit = lb (pound avoirdupois)  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 0.45359237

Unit = pound  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 0.45359237

Unit = oz (ounce avoirdupois)  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 2.83495E-02 #

Unit = ounce  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 2.83495E-03 #

Unit = g (gram)  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1E-03

Unit = gram  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1E-03

Unit = gr (grain)  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 6.479891E-05

Unit = grain  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 6.479891E-05

Unit = Da (dalton)  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1.66054E-27 #

Unit = dalton  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1.66054E-27 #

Unit = u (unified atomic mass unit)  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1.66054E-27 #

Unit = amu  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1.66054E-27 #

Unit = ton (2000 lb)  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 9.0718474E+02 (CRC)

Unit = t (tonne, metric ton)  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1E+03

Unit = metric ton  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1E+03

Unit = kiloton  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1E+06

Unit = short ton  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 907.18474

Unit = tonne  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1E+03

Unit = Msol (mean solar mass)  
Corresponding SI Dimension = kg  
Unit to SI Dimension Factor = 1.98E+30

## Amount of substance

Unit = mol (mole)

Corresponding SI Dimension = mol

Unit to SI Dimension Factor = 1

Unit = val (valar mass)

Corresponding SI Dimension = val

Unit to SI Dimension Factor = 1

Unit = mole

Corresponding SI Dimension = mol

Unit to SI Dimension Factor = 1

Unit = gmole

Corresponding SI Dimension = mol

Unit to SI Dimension Factor = 1

Unit = grammole

Corresponding SI Dimension = mol

Unit to SI Dimension Factor = 1

Unit = poundmole

Corresponding SI Dimension = mol

Unit to SI Dimension Factor = 453.59237

Unit = lbmol

Corresponding SI Dimension = mol

Unit to SI Dimension Factor = 453.59237

Unit = lbmole

Corresponding SI Dimension = mol

Unit to SI Dimension Factor = 453.59237

Unit = molfrac

Corresponding SI Dimension = molfrac

Unit to SI Dimension Factor = 1

Unit = molefrac

Corresponding SI Dimension = molfrac

Unit to SI Dimension Factor = 1

## Time

Unit = s (second)

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 1

Unit = sec (second)

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 1

Unit = second

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 1

Unit = min (minute)

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 60

Unit = minute

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 60

Unit = h (hour)

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 3.600E+03

Unit = hr (hour)

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 3.600E+03

Unit = hour

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 3.600E+03

Unit = d (day)

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 8.6400E+04

Unit = day

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 8.6400E+04

Unit = days

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 8.6400E+04

Unit = wk (week)

Corresponding SI Dimension = s

Unit to SI Dimension Factor = 6.04800E+05

Unit = week  
Corresponding SI Dimension = s  
Unit to SI Dimension Factor = 6.04800E+05

Unit = month  
Corresponding SI Dimension = mo  
Unit to SI Dimension Factor = 1

Unit = mo  
Corresponding SI Dimension = mo  
Unit to SI Dimension Factor = 1

Unit = a (mean solar year)  
Corresponding SI Dimension = s  
Unit to SI Dimension Factor = 3.1556926E+07

Unit = yr (mean solar year)  
Corresponding SI Dimension = s  
Unit to SI Dimension Factor = 3.1556926E+07

Unit = year (calendar)  
Corresponding SI Dimension = s  
Unit to SI Dimension Factor = 3.1536E+07

Unit = Sv (svedberg)  
Corresponding SI Dimension = s  
Unit to SI Dimension Factor = 1E-13

Unit = svedberg  
Corresponding SI Dimension = s  
Unit to SI Dimension Factor = 1E-13

## Acceleration

Unit =  $\text{m/s}^2$

Corresponding SI Dimension =  $\text{m/s}^2$

Unit to SI Dimension Factor = 1

Unit = Gal (galileo)

Corresponding SI Dimension =  $\text{m/s}^2$

Unit to SI Dimension Factor =  $1\text{E-}02$

Unit = galileo

Corresponding SI Dimension =  $\text{m/s}^2$

Unit to SI Dimension Factor =  $1\text{E-}02$

Unit = g (standard acceleration of free fall)

Corresponding SI Dimension =  $\text{m/s}^2$

Unit to SI Dimension Factor = 9.80665

Unit = mph/s

Corresponding SI Dimension =  $\text{m/s}^2$

Unit to SI Dimension Factor = 0.447037222

Unit = mph/sec

Corresponding SI Dimension =  $\text{m/s}^2$

Unit to SI Dimension Factor = 0.447037222

Unit = mph/s

Corresponding SI Dimension =  $\text{m/s}^2$

Unit to SI Dimension Factor = 0.447037222

## Velocity

Unit = m/s

Corresponding SI Dimension = m/s

Unit to SI Dimension Factor = 1

Unit = mph

Corresponding SI Dimension = m/s

Unit to SI Dimension Factor = 0.447037222

Unit = fps

Corresponding SI Dimension = m/s

Unit to SI Dimension Factor = 0.3048

Unit = fpm

Corresponding SI Dimension = m/s

Unit to SI Dimension Factor = 0.00508 (CRC)

Unit = ips

Corresponding SI Dimension = m/s

Unit to SI Dimension Factor = 0.0254

Unit = kmph

Corresponding SI Dimension = m/s

Unit to SI Dimension Factor = 1E+03

Unit = %/s

Corresponding SI Dimension = %/s

Unit to SI Dimension Factor = 1



## Force

Unit = N (newton)

Corresponding SI Dimension = N

Unit to SI Dimension Factor = 1

Unit = newton

Corresponding SI Dimension = N

Unit to SI Dimension Factor = 1

Unit =  $\text{kg}\cdot\text{m}/\text{s}^2$

Corresponding SI Dimension = N

Unit to SI Dimension Factor = 1

Unit = dyn (dyne)

Corresponding SI Dimension = N

Unit to SI Dimension Factor =  $1\text{E}-05$

Unit = dyne

Corresponding SI Dimension = N

Unit to SI Dimension Factor =  $1\text{E}-05$

Unit = kgf (killogram-force)

Corresponding SI Dimension = N

Unit to SI Dimension Factor = 9.80665

Unit = kg (killogram-force)

Corresponding SI Dimension = N

Unit to SI Dimension Factor = 9.80665

Unit = gf (gram-force)

Corresponding SI Dimension = N

Unit to SI Dimension Factor =  $9.80665\text{E}-03$

Unit = g (gram-force)

Corresponding SI Dimension = N

Unit to SI Dimension Factor =  $9.80665\text{E}-03$

Unit = lbf (pound-force)

Corresponding SI Dimension = N

Unit to SI Dimension Factor = 4.448221677 (CRC)

Unit = lb (pound-force)

Corresponding SI Dimension = N

Unit to SI Dimension Factor = 4.448221677 (CRC)

Unit = pdl (poundal)

Corresponding SI Dimension = N

Unit to SI Dimension Factor =  $1.38255\text{E}-01$  (CRC)

Unit = poundal

Corresponding SI Dimension = N

Unit to SI Dimension Factor = 1.38255E-01 (CRC)

Unit = kip (=1000 lbf)

Corresponding SI Dimension = N

Unit to SI Dimension Factor = 4.448221677E+03

## Energy

Unit = J (joule)

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 1

Unit = joule

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 1

Unit N\*m

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 1

Unit =  $\text{kg}\cdot\text{m}^2/\text{s}^2$

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 1

Unit = erg (erg)

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 1E-07

Unit = Ry (rydberg)

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 2.1798741E-18 #

Unit = rydberg

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 2.1798741E-18 #

Unit = eV (electronvolt)

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 1.60217733E-19 #

Unit = electronvolt

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 1.60217733E-19 #

Unit = ITcal (calorie, international)

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 4.1868

Unit = cal (calorie, thermal)

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 4.184

Unit = calIT (calorie, international)

Corresponding SI Dimension = J

Unit to SI Dimension Factor = 4.1868

Unit = Latm (liter atmosphere)  
Corresponding SI Dimension = J  
Unit to SI Dimension Factor = 101.325

Unit = Btu (British thermal unit)  
Corresponding SI Dimension = J  
Unit to SI Dimension Factor = 1055.06

Unit = Whr (watt-hour, absolute)  
Corresponding SI Dimension = J  
Unit to SI Dimension Factor = 3600

Unit = Wh (watt-hour, absolute)  
Corresponding SI Dimension = J  
Unit to SI Dimension Factor = 3600

Unit = ftlbf  
Corresponding SI Dimension = J  
Unit to SI Dimension Factor = 1.35582 (CRC)

Unit = inlbf  
Corresponding SI Dimension = J  
Unit to SI Dimension Factor = 0.112985

Unit = hp\*h  
Corresponding SI Dimension = J  
Unit to SI Dimension Factor = 2.68452E+06 (CRC)

Unit = hp\*hr  
Corresponding SI Dimension = J  
Unit to SI Dimension Factor = 2.68452E+06 (CRC)

Unit = hphr  
Corresponding SI Dimension = J  
Unit to SI Dimension Factor = 2.68452E+06 (CRC)

## Pressure

Unit = Pa (pascal)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 1

Unit = pascal  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 1

Unit = micropascal  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 1E-06

Unit = MPa (=10\*\*6 Pa)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 1E+06

Unit = milliPa (=10\*\*-3 Pa)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 1E-03

Unit = N/m\*\*2  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 1

Unit = kg/m\*s\*\*2  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 1

Unit = atm (standard atmosphere)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 1.01325E+05

Unit = atmosphere  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 1.01325E+05

Unit = bar (bar)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 1E+05

Unit = Torr (torr)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 133.322 #

Unit = Tor (torr)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 133.322 #

Unit = mmHg (millimeter of Hg - conventional)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 133.322 #

Unit = inHg (inches of Hg - conventional)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 3386.39 (CRC)

Unit = mmH<sub>2</sub>O (millimeters of water - conventional)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 9.80665

Unit = cmHg (centimeter of Hg - conventional)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 1333.22 #

Unit = psi (pounds force per square inch)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 6.894757E+03 #

Unit = psia (pounds force per square inch, absolute)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 6.894757E+03 #

Unit = psf (pounds force per square foot)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 47.8803 (CRC)

Unit = lbf/in<sup>2</sup>  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 6.894757E+03 #

Unit = ksi (10<sup>3</sup> pounds force per square inch)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 6.894757E+06 #

Unit = E+03ksi (10<sup>6</sup> pounds force per square inch)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 6.894757E+09 #

Unit = Msi (10<sup>6</sup> pounds force per square inch)  
Corresponding SI Dimension = Pa  
Unit to SI Dimension Factor = 6.894757E+09 #

## Power

Unit = W (watt)

Corresponding SI Dimension = W

Unit to SI Dimension Factor = 1

Unit = watt

Corresponding SI Dimension = W

Unit to SI Dimension Factor = 1

Unit =  $\text{kg}\cdot\text{m}^2/\text{s}^3$

Corresponding SI Dimension = W

Unit to SI Dimension Factor = 1

Unit = J/s

Corresponding SI Dimension = W

Unit to SI Dimension Factor = 1

Unit = hp (horsepower, imperial)

Corresponding SI Dimension = W

Unit to SI Dimension Factor = 745.7

Unit = horsepower

Corresponding SI Dimension = W

Unit to SI Dimension Factor = 745.7

Unit = V\*A

Corresponding SI Dimension = VA

Unit to SI Dimension Factor = 1

Unit to SI Scaling Factor = 0

Unit = VA

Corresponding SI Dimension = VA

Unit to SI Dimension Factor = 1

Unit to SI Scaling Factor = 0

Unit = voltampere

Corresponding SI Dimension = VA

Unit to SI Dimension Factor = 1

Unit to SI Scaling Factor = 0

Unit = V\*Ar

Corresponding SI Dimension = VAR

Unit to SI Dimension Factor = 1

Unit to SI Scaling Factor = 0

Unit = VAR

Corresponding SI Dimension = VAR

Unit to SI Dimension Factor = 1

Unit to SI Scaling Factor = 0

Unit = var (voltampere reactive)  
Corresponding SI Dimension = VAR  
Unit to SI Dimension Factor = 1  
Unit to SI Scaling Factor = 0



## Dynamic viscosity

Unit = Pa\*s

Corresponding SI Dimension = Pa\*s

Unit to SI Dimension Factor = 1

Unit = kg/m\*s

Corresponding SI Dimension = Pa\*s

Unit to SI Dimension Factor = 1

Unit = P (poise)

Corresponding SI Dimension = Pa\*s

Unit to SI Dimension Factor = 1E-01

Unit = Ps (poise)

Corresponding SI Dimension = Pa\*s

Unit to SI Dimension Factor = 1E-01

Unit = poise

Corresponding SI Dimension = Pa\*s

Unit to SI Dimension Factor = 1E-01

Unit = micropoise

Corresponding SI Dimension = Pa\*s

Unit to SI Dimension Factor = 1E-07

## Kinematic viscosity

Unit =  $\text{m}^2/\text{s}$

Corresponding SI Dimension =  $\text{m}^2/\text{s}$

Unit to SI Dimension Factor = 1

Unit = St (stokes)

Corresponding SI Dimension =  $\text{m}^2/\text{s}$

Unit to SI Dimension Factor =  $1\text{E-}04$

Unit = stokes

Corresponding SI Dimension =  $\text{m}^2/\text{s}$

Unit to SI Dimension Factor =  $1\text{E-}04$

## Temperature

Unit = K (kelvin)

Corresponding SI Dimension = K

Unit to SI Dimension Factor = 1

Unit = kelvin

Corresponding SI Dimension = K

Unit to SI Dimension Factor = 1

Unit = degK

Corresponding SI Dimension = K

Unit to SI Dimension Factor = 1

Unit = degC (degree Centigrade/Celsius)

Corresponding SI Dimension = K

Unit to SI Dimension Factor = 1

Unit to SI Dimension Scaling Factor = 273.15

Unit = Cel (degree Celsius)

Corresponding SI Dimension = K

Unit to SI Dimension Factor = 1

Unit to SI Dimension Scaling Factor = 273.15

Unit = Centigrade

Corresponding SI Dimension = K

Unit to SI Dimension Factor = 1

Unit to SI Dimension Scaling Factor = 273.15

Unit = Celsius

Corresponding SI Dimension = K

Unit to SI Dimension Factor = 1

Unit to SI Dimension Scaling Factor = 273.15

Unit = C (degree Centigrade/Celsius)

Corresponding SI Dimension = K

Unit to SI Dimension Factor = 1

Unit to SI Dimension Scaling Factor = 273.15

Unit = degF (degree Fahrenheit)

Corresponding SI Dimension = K

Unit to SI Dimension Factor = 5/9

Unit to SI Dimension Scaling Factor = 255.372222

Unit = F (degree Fahrenheit)

Corresponding SI Dimension = K

Unit to SI Dimension Factor = 5/9

Unit to SI Dimension Scaling Factor = 255.372222

Unit = Fahrenheit

Corresponding SI Dimension = K  
Unit to SI Dimension Factor =  $5/9$   
Unit to SI Dimension Scaling Factor = 255.372222

Unit = degR (degree Rankine)  
Corresponding SI Dimension = K  
Unit to SI Dimension Factor =  $5/9$

Unit = R (degree Rankine)  
Corresponding SI Dimension = K  
Unit to SI Dimension Factor =  $5/9$

Unit = Rankine  
Corresponding SI Dimension = K  
Unit to SI Dimension Factor =  $5/9$

## Entropy, heat capacity

Unit = J/K

Corresponding SI Dimension = J/K

Unit to SI Dimension Factor = 1

Unit = Cl (clausius)

Corresponding SI Dimension = J/K

Unit to SI Dimension Factor = 4.184

Unit = clausius

Corresponding SI Dimension = J/K

Unit to SI Dimension Factor = 4.184

## Molar entropy, molar heat capacity

Unit =  $\text{J/K}\cdot\text{mol}$

Corresponding SI Dimension =  $\text{J/K}\cdot\text{mol}$

Unit to SI Dimension Factor = 1

Unit = eu (entropy unit)

Corresponding SI Dimension =  $\text{J/K}\cdot\text{mol}$

Unit to SI Dimension Factor = 4.184

## Solubility parameter

Unit =  $\text{cal}^{0.5}/\text{cm}^{1.5}$

Corresponding SI Dimension =  $\text{J}^{0.5}/\text{m}^{1.5}$

Unit to SI Dimension Factor =  $2.0454828\text{E}+03$

Unit =  $\text{cal}^{0.5}/\text{m}^{1.5}$

Corresponding SI Dimension =  $\text{J}^{0.5}/\text{m}^{1.5}$

Unit to SI Dimension Factor =  $2.0454828$

Unit = H (hildebrand)

Corresponding SI Dimension =  $\text{J}^{0.5}/\text{m}^{1.5}$

Unit to SI Dimension Factor =  $2.0454828\text{E}+03$  (CRC)

Unit = hildebrand

Corresponding SI Dimension =  $\text{J}^{0.5}/\text{m}^{1.5}$

Unit to SI Dimension Factor =  $2.0454828\text{E}+03$

## Plane angle

Unit = rad (radian)

Corresponding SI Dimension = rad

Unit to SI Dimension Factor = 1

Unit = radian

Corresponding SI Dimension = rad

Unit to SI Dimension Factor = 1

Unit = deg (degree)

Corresponding SI Dimension = rad

Unit to SI Dimension Factor = 1.7453293E-02 (CRC)

Unit = degree

Corresponding SI Dimension = rad

Unit to SI Dimension Factor = 1.7453293E-02 (CRC)

Unit = min (minute)

Corresponding SI Dimension = rad

Unit to SI Dimension Factor = 2.9088821E-04 (CRC)

Unit = sec (second)

Corresponding SI Dimension = rad

Unit to SI Dimension Factor = 4.8481368E-06 (CRC)



## Electric current

Unit = A (ampere)

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 1

Unit = ampere

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 1

Unit = amp

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 1

Unit = abA (abampere)

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 1E+01

Unit = abampere

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 1E+01

Unit to SI Dimension Scaling Factor = 0

Unit = statA (statampere)

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 3.335635E-10

Unit = statampere

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 3.335635E-10

Unit = biot

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 1E+1

Unit = Bi (biot)

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 1E+1

## Electric charge

Unit = C (coulomb)

Corresponding SI Dimension = C

Unit to SI Dimension Factor = 1

Unit = coulomb

Corresponding SI Dimension = C

Unit to SI Dimension Factor = 1

Unit = statC (statcoulomb)

Corresponding SI Dimension = C

Unit to SI Dimension Factor = 3.335635E-10

Unit = statcoulomb

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 3.335635E-10

Unit = abC (abcoulomb)

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 1E+01

Unit = abcoulomb

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 1E+01

Unit = Fr (franklin)

Corresponding SI Dimension = C

Unit to SI Dimension Factor = 3.335635E-10

Unit = franklin

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 3.335635E-10

Unit = A\*s

Corresponding SI Dimension = C

Unit to SI Dimension Factor = 1

## Electric potential

Unit = V (volt)

Corresponding SI Dimension = V

Unit to SI Dimension Factor = 1

Unit = volt

Corresponding SI Dimension = V

Unit to SI Dimension Factor = 1

Unit = statV (statvolt)

Corresponding SI Dimension = V

Unit to SI Dimension Factor = 2.99793E+10

Unit = statvolt

Corresponding SI Dimension = V

Unit to SI Dimension Factor = 2.99793E+10

Unit = abV (abvolt)

Corresponding SI Dimension = V

Unit to SI Dimension Factor = 1E-08

Unit = abvolt

Corresponding SI Dimension = V

Unit to SI Dimension Factor = 1E-08

Unit = J/A\*s

Corresponding SI Dimension = V

Unit to SI Dimension Factor = 1

## Electric resistance

Unit = ohm

Corresponding SI Dimension = ohm

Unit to SI Dimension Factor = 1

Unit = kilohm

Corresponding SI Dimension = ohm

Unit to SI Dimension Factor = 1E+03

Unit = hectohm

Corresponding SI Dimension = ohm

Unit to SI Dimension Factor = 1E+02

Unit = microhm

Corresponding SI Dimension = ohm

Unit to SI Dimension Factor = 1E-06

Unit = nanohm

Corresponding SI Dimension = ohm

Unit to SI Dimension Factor = 1E-09

Unit = picohm

Corresponding SI Dimension = ohm

Unit to SI Dimension Factor = 1E-12

Unit = E+14ohm

Corresponding SI Dimension = ohm

Unit to SI Dimension Factor = 1E-14

Unit = statohm

Corresponding SI Dimension = ohm

Unit to SI Dimension Factor = 8.987584E+11

Unit = abohm

Corresponding SI Dimension = ohm

Unit to SI Dimension Factor = 1E-09

Unit = V/A

Corresponding SI Dimension = ohm

Unit to SI Dimension Factor = 1

Unit =  $m^2 \cdot kg / s^3 \cdot A^2$

Corresponding SI Dimension = ohm

Unit to SI Dimension Factor = 1

## Electric dipole moment

Unit C\*m

Corresponding SI Dimension = C\*m

Unit to SI Dimension Factor = 1

Unit = D (debye)

Corresponding SI Dimension = C\*m

Unit to SI Dimension Factor = 3.33564E-30 #

Unit = debye

Corresponding SI Dimension = C\*m

Unit to SI Dimension Factor = 3.33564E-30 #

## Electric quadrupole moment

Unit =  $C \cdot m^2$

Corresponding SI Dimension =  $C \cdot m^2$

Unit to SI Dimension Factor = 1

## Electric capacitance

Unit = F (farad)

Corresponding SI Dimension = F

Unit to SI Dimension Factor = 1

Unit = farad

Corresponding SI Dimension = F

Unit to SI Dimension Factor = 1

Unit = abF (abfarad)

Corresponding SI Dimension = F

Unit to SI Dimension Factor = 1E+09

Unit = abfarad

Corresponding SI Dimension = F

Unit to SI Dimension Factor = 1E+09

Unit to SI Dimension Scaling Factor =

Unit = statF (statfarad)

Corresponding SI Dimension = F

Unit to SI Dimension Factor = 1.112646E-12

Unit = statfarad

Corresponding SI Dimension = F

Unit to SI Dimension Factor = 1.112646E-12

Unit =  $s^4 A^2 / m^2 kg$

Corresponding SI Dimension = F

Unit to SI Dimension Factor = 1

## Electric conductance

Unit = S (siemens)

Corresponding SI Dimension = S

Unit to SI Dimension Factor = 1

Unit = siemens

Corresponding SI Dimension = S

Unit to SI Dimension Factor = 1

Unit = statS (statsiemens)

Corresponding SI Dimension = S

Unit to SI Dimension Factor = 1.112646E-12

Unit = statsiemens

Corresponding SI Dimension = S

Unit to SI Dimension Factor = 1.112646E-12

Unit = abS (absiemens)

Corresponding SI Dimension = S

Unit to SI Dimension Factor = 1E+09

Unit = absiemens

Corresponding SI Dimension = S

Unit to SI Dimension Factor = 1E+09

Unit =  $s^3 A^2 / m^2 kg$

Corresponding SI Dimension = F

Unit to SI Dimension Factor = 1

Unit = ohm<sup>-1</sup>

Corresponding SI Dimension = S

Unit to SI Dimension Factor = 1

Unit = mho

Corresponding SI Dimension = S

Unit to SI Dimension Factor = 1

Unit = statmho

Corresponding SI Dimension = S

Unit to SI Dimension Factor = 1.112646E-12

Unit = abmho

Corresponding SI Dimension = S

Unit to SI Dimension Factor = 1E+09



## Frequency

Unit = Hz (hertz)

Corresponding SI Dimension = Hz

Unit to SI Dimension Factor = 1

Unit = hertz

Corresponding SI Dimension = Hz

Unit to SI Dimension Factor = 1

Unit =  $s^{-1}$

Corresponding SI Dimension = Hz

Unit to SI Dimension Factor = 1

Unit = cps (cycles/s)

Corresponding SI Dimension = Hz

Unit to SI Dimension Factor = 1

Unit = cycles/s

Corresponding SI Dimension = Hz

Unit to SI Dimension Factor = 1

## Magnetic flux density

Unit =  $\text{Wb/m}^2$

Corresponding SI Dimension = T

Unit to SI Dimension Factor = 1

Unit = tesla

Corresponding SI Dimension = T

Unit to SI Dimension Factor = 1

Unit =  $\text{kg/A}^2\text{s}^2$

Corresponding SI Dimension = T

Unit to SI Dimension Factor = 1

Unit = gauss

Corresponding SI Dimension = T

Unit to SI Dimension Factor =  $1\text{E-}04$

Unit = G (gauss)

Corresponding SI Dimension = T

Unit to SI Dimension Factor =  $1\text{E-}04$

Unit =  $\text{Mx/cm}^2$

Corresponding SI Dimension = T

Unit to SI Dimension Factor =  $1\text{E-}04$

## Magnetic flux

Unit = Wb (weber)

Corresponding SI Dimension = Wb

Unit to SI Dimension Factor = 1

Unit = weber

Corresponding SI Dimension = Wb

Unit to SI Dimension Factor = 1

Unit =  $\text{kg}\cdot\text{m}^2/\text{A}\cdot\text{s}^2$

Corresponding SI Dimension = Wb

Unit to SI Dimension Factor = 1

Unit = Mx (maxwell)

Corresponding SI Dimension = Wb

Unit to SI Dimension Factor =  $1\text{E}-08$

Unit = maxwell

Corresponding SI Dimension = Wb

Unit to SI Dimension Factor =  $1\text{E}-08$

## Magnetic field strength

Unit = oersted

Corresponding SI Dimension = A/m

Unit to SI Dimension Factor = 79.577472

Unit = Oe

Corresponding SI Dimension = A/m

Unit to SI Dimension Factor = 79.577472

## Magnetomotive force

Unit = gilbert

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 0.79577472

Unit = Gb

Corresponding SI Dimension = A

Unit to SI Dimension Factor = 0.79577472

## Other

Unit = kayser (reciprocal length)  
Corresponding SI Dimension =  $m^{-1}$   
Unit to SI Dimension Factor =  $1E-02$

Unit =  $m^{-1}$  (reciprocal length)  
Corresponding SI Dimension =  $m^{-1}$   
Unit to SI Dimension Factor = 1

Unit = 1/m (reciprocal length)  
Corresponding SI Dimension =  $m^{-1}$   
Unit to SI Dimension Factor = 1

Unit = ppm (parts/million)  
Corresponding SI Dimension = ppm  
Unit to SI Dimension Factor = 1

Unit = ppb (parts/billion)  
Corresponding SI Dimension = ppm  
Unit to SI Dimension Factor =  $1E+03$

Unit = ppt (parts/thousand)  
Corresponding SI Dimension = ppm  
Unit to SI Dimension Factor =  $1E-03$

Unit = pph (parts/hundred)  
Corresponding SI Dimension = ppm  
Unit to SI Dimension Factor =  $1E-04$

Unit =  $1.0E-06$ lb/lb  
Corresponding SI Dimension = kg/kg  
Unit to SI Dimension Factor =  $1E+06$

Unit =  $1.0E-06$ lb/ft<sup>3</sup>  
Corresponding SI Dimension = kg/m<sup>3</sup>  
Unit to SI Dimension Factor =  $1.60185E+07$

Unit = %  
Corresponding SI Dimension = %  
Unit to SI Dimension Factor = 1

Unit = percent  
Corresponding SI Dimension = %  
Unit to SI Dimension Factor = 1

Unit = wt%  
Corresponding SI Dimension = %  
Unit to SI Dimension Factor = 1

Unit = vol%  
Corresponding SI Dimension = vol%  
Unit to SI Dimension Factor = 1

Unit = cycles  
Corresponding SI Dimension = cycles  
Unit to SI Dimension Factor = 1

Unit = 1000cycles  
Corresponding SI Dimension = cycles  
Unit to SI Dimension Factor = 1E+03

Unit = 1000 cycles  
Corresponding SI Dimension = cycles  
Unit to SI Dimension Factor = 1E+03

Unit = E+06cycles  
Corresponding SI Dimension = cycles  
Unit to SI Dimension Factor = 1E+06

Unit = arcs  
Corresponding SI Dimension = arcs  
Unit to SI Dimension Factor = 1

Unit = cents  
Corresponding SI Dimension = cents  
Unit to SI Dimension Factor = 1  
Unit to SI Dimension Scalling Factor = 0

Unit = %IACS  
Corresponding SI Dmension = 1/ohm\*m  
Unit to SI Dimension Factor = 58

Unit = %IACSwt  
Corresponding SI Dimension = 1/ohm\*m  
Unit to SI Dimension Factor = 6.5242  
Unit to SI Dimension Scalling Factor = 1

Unit = percentIACS  
Corresponding SI Dmension = 1/ohm\*m  
Unit to SI Dimension Factor = 58

Unit = percentIACSwt  
Corresponding SI Dimension = 1/ohm\*m  
Unit to SI Dimension Factor = 6.5242  
Unit to SI Dimension Scalling Factor = 1

Unit = 1/ohm\*m  
Corresponding SI Dimension = 1/ohm\*m

Unit to SI Dimension Factor = 1

Unit to SI Dimension Scaling Factor = 1



## Computer terminology

Unit = bit

Corresponding SI Dimension = bit

Unit to SI Dimension Factor = 1

Unit = byte

Corresponding SI Dimension = byte

Unit to SI Dimension Factor = 1

Unit = kbyte

Corresponding SI Dimension = byte

Unit to SI Dimension Factor = 1024

Unit = kb

Corresponding SI Dimension = byte

Unit to SI Dimension Factor = 1024

Unit = kilobyte

Corresponding SI Dimension = byte

Unit to SI Dimension Factor = 1024

Unit = Mbyte

Corresponding SI Dimension = byte

Unit to SI Dimension Factor = 1048576

Unit = Mb

Corresponding SI Dimension = byte

Unit to SI Dimension Factor = 1048576

Unit = megabyte

Corresponding SI Dimension = byte

Unit to SI Dimension Factor = 1048576

Unit = Gbyte

Corresponding SI Dimension = byte

Unit to SI Dimension Factor = 1073741824

Unit = Gb

Corresponding SI Dimension = byte

Unit to SI Dimension Factor = 1073741824

Unit = gigabyte

Corresponding SI Dimension = byte

Unit to SI Dimension Factor = 1073741824

Unit = ips

Corresponding SI Dimension = ips

Unit to SI Dimension Factor = 1

Unit = i (instructions)  
Unit to SI Dimension Factor = 1

Unit = instructions  
Corresponding SI Dimension = i  
Unit to SI Dimension Factor = 1

Unit = flops  
Corresponding SI Dimension = flops  
Unit to SI Dimension Factor = 1

Unit = flo (floating point operations)  
Corresponding SI Dimension = flo  
Unit to SI Dimension Factor = 1

Unit = pixel  
Corresponding SI Dimension = pixel  
Unit to SI Dimension Factor = 1

Unit = cps (characters/second)  
Corresponding SI Dimension = cps  
Unit to SI Dimension Factor = 1

Unit = c (characters)  
Corresponding SI Dimension = c  
Unit to SI Dimension Factor = 1

Unit = characters  
Corresponding SI Dimension = c  
Unit to SI Dimension Factor = 1

## Noise intensity

Unit = dB (decibel)

Corresponding SI Dimension = db

Unit to SI Dimension Factor = 1

Unit = decibel

Corresponding SI Dimension = db

Unit to SI Dimension Factor = 1

Unit = B (Bel)

Corresponding SI Dimension = db

Unit to SI Dimension Factor = 10

Unit = Bel

Corresponding SI Dimension = db

Unit to SI Dimension Factor = 10

## Radiation

Unit = Gy (gray)

Corresponding SI Dimension = J/kg

Unit to SI Dimension Factor = 1

Unit = gray

Corresponding SI Dimension = J/kg

Unit to SI Dimension Factor = 1

Unit = rad

Corresponding SI Dimension = J/kg

Unit to SI Dimension Factor = 1E-02

Unit = Sv (sievert)

Corresponding SI Dimension = Sv

Unit to SI Dimension Factor = 1

Unit = sievert

Corresponding SI Dimension = Sv

Unit to SI Dimension Factor = 1

Unit = rem

Corresponding SI Dimension = J/kg

Unit to SI Dimension Factor = 1E-02 #

Unit = Bq (becquerel)

Corresponding SI Dimension = Bq

Unit to SI Dimension Factor = 1

Unit = becquerel

Corresponding SI Dimension = Bq

Unit to SI Dimension Factor = 1

Unit = Ci (curie)

Corresponding SI Dimension = s<sup>-1</sup>

Unit to SI Dimension Factor = 3.7E+10

Unit = curie

Corresponding SI Dimension = s<sup>-1</sup>

Unit to SI Dimension Factor = 3.7E+10

Unit = R (Rontgen)

Corresponding SI Dimension = C/kg

Unit to SI Dimension Factor = 2.58E-04

Unit = Rontgen

Corresponding SI Dimension = C/kg

Unit to SI Dimension Factor = 2.58E-04

Unit = Roentgen

Corresponding SI Dimension = C/kg

Unit to SI Dimension Factor = 2.58E-04

Using STN Units within Z39.50