

Conversion factors

1 Btu =  $1.054 \times 10^3$  J  
 1 Btu = 252 cal  
 1 Cal =  $1 \times 10^3$  cal  
 1 Hg = 1.316 atm  
 1 J = 0.2389 cal  
 1 J = 0.738 ft lb  
 1 J =  $1 \times 10^7$  erg  
 1 J =  $2.778 \times 10^{-7}$  kWh  
 1 J =  $6.242 \times 10^{18}$  eV  
 1 J =  $9.488 \times 10^{-4}$  Btu  
 1 N = 0.2248 lb  
 1 N =  $1 \times 10^5$  dyne  
 1 Pa =  $9.872 \times 10^{-6}$  atm  
 1 W =  $1.34 \times 10^{-3}$  hp  
 1 Å =  $1 \times 10^{-10}$  m  
 1 atm = .760 Hg  
 1 atm =  $1.013 \times 10^5$  Pa  
 1 cal =  $1 \times 10^{-3}$  Cal  
 1 cal =  $3.968 \times 10^{-3}$  Btu  
 1 cal = 4.186 J  
 1 cm<sup>3</sup> =  $1 \times 10^{-3}$  liter  
 1 cm = 0.3937 in  
 1 day =  $1.44 \times 10^3$  min  
 1 day =  $2.74 \times 10^{-3}$  year  
 1 day = 24 h  
 1 day =  $8.64 \times 10^4$  s  
 1 deg = 0.01745329252 rad  
 1 deg =  $2.777777778 \times 10^{-3}$  rev  
 1 dyne =  $1 \times 10^{-5}$  N  
 1 dyne =  $4.448 \times 10^{-5}$  lb  
 1 eV =  $1.0735 \times 10^{-9}$  u  
 1 eV =  $1.602 \times 10^{-19}$  J  
 1 erg =  $1 \times 10^{-7}$  J  
 1 ft lb = 1.355 J  
 1 ft<sup>3</sup> = 28.33 liter  
 1 ft<sup>3</sup> = 7.481 gal  
 1 ft = 0.3048 m  
 1 ft = 0.333333 yd  
 1 ft =  $1.894 \times 10^{-4}$  mi  
 1 ft = 12 in  
 1 gal = 0.1337 ft<sup>3</sup>  
 1 gal = 231 in<sup>3</sup>  
 1 gal = 3.786 liter  
 1 hp = .746 kW  
 1 hp = 746 W  
 1 h =  $1.141 \times 10^{-4}$  year  
 1 h = 3600 s  
 1 h =  $4.167 \times 10^{-2}$  day  
 1 h = 60 min  
 1 in<sup>3</sup> =  $4.33 \times 10^{-3}$  gal  
 1 in = 2.54 cm  
 1 in =  $2.54 \times 10^{-2}$  m

1 in =  $8.333 \times 10^{-02}$  ft  
 1 kWh =  $3.6 \times 10^{+6}$  J  
 1 kW = 1.34 hp  
 1 kg =  $1 \times 10^{-3}$  t  
 1 kg =  $6.024 \times 10^{+26}$  u  
 1 kg =  $6.854 \times 10^{-02}$  slug  
 1 km = 0.6215 mi  
 1 lb =  $2.248 \times 10^{-6}$  dyne  
 1 lb = 4.448 N  
 1 liter = 0.0353 ft<sup>3</sup>  
 1 liter = 0.264 gal  
 1 liter = 1.0576 qt  
 1 liter =  $1 \times 10^{+3}$  cm<sup>3</sup>  
 1 liter =  $1 \times 10^{-3}$  m<sup>3</sup>  
 1 m<sup>3</sup> =  $1 \times 10^{+3}$  liter  
 1 min =  $1.666667 \times 10^{-2}$  h  
 1 min =  $1.901 \times 10^{-6}$  year  
 1 min =  $6.944 \times 10^{-4}$  day  
 1 min = 60 s  
 1 mi = 1.609 km  
 1 mi = 1609.0 m  
 1 mi = 5280 ft  
 1 m = 1.0936 yd  
 1 m =  $1 \times 10^{10}$  Å  
 1 m = 3.281 ft  
 1 m = 39.37 in  
 1 m = 0.0006215 mi  
 1 qt = 0.9455 liter  
 1 rad = 0.1591549431 rev  
 1 rad = 57.29577951 deg  
 1 rev = 360 deg  
 1 rev = 6.283185308 rad  
 1 slug = 14.59 kg  
 1 s =  $1.157 \times 10^{-5}$  day  
 1 s =  $1.666667 \times 10^{-2}$  min  
 1 s =  $2.777778 \times 10^{-4}$  h  
 1 s =  $3.16 \times 10^{-8}$  year  
 1 t =  $1 \times 10^{+3}$  kg  
 1 u =  $1.66 \times 10^{-27}$  kg  
 1 u =  $931.5 \times 10^{+6}$  eV  
 1 yd = 0.9144 m  
 1 yd = 3 ft  
 1 year =  $3.16 \times 10^{+7}$  s  
 1 year = 365.25636 day  
 1 year =  $5.259 \times 10^{+5}$  min  
 1 year =  $8.766 \times 10^{+3}$  h