

Conversion Factors

| From | Multiply By | To Obtain | From | Multiply By | To Obtain |
|--------------------------------|-------------------------|---|---|------------------------|---|
| acre | 43560 | square feet (ft ²) | joule (J) | 9.478×10 ⁻⁴ | Btu |
| ampere-hr (A-hr) | 3600 | coulomb (C) | J | 0.7376 | ft-lbf |
| ångström (Å) | 1×10 ⁻¹⁰ | meter (m) | J | 1 | newton·m (N·m) |
| atmosphere (atm) | 76 | cm, mercury (Hg) | J/s | 1 | watt (W) |
| atm, std | 29.92 in | mercury (Hg) | | | |
| atm, std | 14.7 | lbf/in ² abs (psia) | kilogram (kg) | 2.205 | pound (lbm) |
| atm, std | 33.9 | ft, water | kgf | 9.8066 | newton (N) |
| atm, std | 1.013×10 ⁵ | pascal (Pa) | kilometer (km) | 3281 | feet (ft) |
| | | | km/hr | 0.621 | mph |
| bar | 1×10 ⁵ | Pa | kilopascal (kPa) | 0.145 | lbf/in ³ (psi) |
| barrels-oil | 42 | gallons-oil | kilowatt (kW) | 1.341 | horsepower (hp) |
| Btu | 1055 | joule(J) | kW | 3413 | Btu/hr |
| Btu | 2.928×10 ⁻⁴ | kilowatt-hr (kWh) | kW | 737.6 | (ft-lbf)/sec |
| Btu | 778 | ft-lbf | kW-hour (kWh) | 3413 | Btu |
| Btu/hr | 3.930×10 ⁻⁴ | horsepower (hp) | kWh | 1.341 | hp-hr |
| Btu/hr | 0.293 | watt (W) | kWh | 3.6×10 ⁶ | joule (J) |
| Btu/hr | 0.216 | ft-lbf/sec | kip (K) | 1000 | lbf |
| | | | K | 4448 | newton (N) |
| calorie (g-cal) | 3.968×10 ⁻³ | Btu | | | |
| cal | 1.560×10 ⁻⁶ | hp-hr | liter (L) | 61.02 | in ³ |
| cal | 4.186 | joule (J) | L | 0.264 | gal (US Liq) |
| cal/sec | 4.186 | watt (W) | L | 10×10 ⁻³ | m ³ |
| centimeter (cm) | 3.281×10 ⁻² | foot (ft) | L/second (L/s) | 2.119 | ft ³ /min (cfm) |
| cm | 0.394 | inch (in) | L/s | 15.85 | gal (US)/min (gpm) |
| centipoise (cP) | 0.001 | pascal·sec (Pa·s) | | | |
| centistokes (cSt) | 1×10 ⁻⁶ | m ² /sec (m ² /s) | meter (m) | 3.281 | feet (ft) |
| cubic feet/second (cfs) | 0.646317 | million gallons/day (mgd) | m | 1.094 | yard |
| cubic foot (ft ³) | 7.481 | gallon | metric ton | 1000 | kilogram (kg) |
| cubic meters (m ³) | 1000 | Liters | m/second (m/s) | 196.8 | feet/min (ft/min) |
| electronvolt (eV) | 1.602×10 ⁻¹⁹ | joule (J) | mile (statute) | 5280 | feet (ft) |
| | | | mile (statute) | 1.609 | kilometer (km) |
| foot (ft) | 30.48 | cm | mile/hour (mph) | 88 | ft/min (fpm) |
| ft | 0.3048 | meter (m) | mph | 1.609 | km/h |
| ft-pound (ft-lbf) | 1.285×10 ⁻³ | Btu | mm of Hg | 1.316×10 ⁻³ | atm |
| ft-lbf | 3.766×10 ⁻⁷ | kilowatt-hr (kWh) | mm of H ₂ O | 9.678×10 ⁻⁵ | atm |
| ft-lbf | 0.324 | calorie (g-cal) | | | |
| ft-lbf | 1.356 | joule (J) | newton (N) | 0.225 | lbf |
| ft-lbf/sec | 1.818×10 ⁻³ | horsepower (hp) | N·m | 0.7376 | ft-lbf |
| | | | N·m | 1 | joule (J) |
| gallon (US Liq) | 3.785 | liter (L) | | | |
| gallon (US Liq) | 0.134 | ft ³ | pascal (Pa) | 9.869×10 ⁻⁶ | atmosphere (atm) |
| gallons of water | 8.3453 | pounds of water | Pa | 1 | newton/m ² (N/m ²) |
| gamma (γ, Γ) | 1×10 ⁻⁹ | tesla (T) | Pa·sec (Pa·s) | 10 | poise (P) |
| gauss | 1×10 ⁻⁴ | T | pound (lbm,avdp) | 0.454 | kilogram (kg) |
| gram (g) | 2.205×10 ⁻³ | pound (lbm) | lbf | 4.448 | N |
| | | | lbf-ft | 1.356 | N·m |
| hectare | 1×10 ⁴ | square meters (m ²) | lbf/in ² (psi) | 0.068 | atm |
| hectare | 2.47104 | acres | psi | 2.307 | ft of H ₂ O |
| horsepower (hp) | 42.4 | Btu/min | psi | 2.036 | in of Hg |
| hp | 745.7 | watt(W) | psi | 6895 | Pa |
| hp | 33000 | (ft-lbf)/min | | | |
| hp | 550 | (ft-lbf)/sec | radian | 180/π | degree |
| hp-hr | 2544 | Btu | | | |
| hp-hr | 1.98×10 ⁶ | ft-lbf | stokes | 1×10 ⁻⁴ | m ² /s |
| hp-hr | 2.68×10 ⁶ | joule (J) | | | |
| hp-hr | 0.746 | kWh | therm | 1×10 ⁵ | Btu |
| inch (in) | 2.54 | centimeter (cm) | watt (W) | 3.413 | Btu/hr |
| in of Hg | 0.0334 | atm | W | 1.341×10 ⁻³ | horsepower (hp) |
| in of Hg | 13.6 | in of H ₂ O | W | 1 | joule/sec (J/s) |
| in of H ₂ O | 0.0361 | lbf/in ² (psi) | weber/m ² (Wb/m ²) | 10000 | gauss |
| in of H ₂ O | 0.002458 | atm | | | |