

Conversion Factors (continued)

Volume and Liquid Measure

1 yd³ = 27 ft³ = 0.76 m³
1 ft³ = 1,728 in³ = 0.028 m³ = 7.48 gal
1 bu = 1.25 ft³
1 gal = 231 in³ = 4 qt = 8 pt = 16 cups
1 gal = 128 fl oz = 3.785 L = 3,785 ml = 3,785 cm³
1 qt = 2 pt = 4 cups = 32 oz = 0.946 L = 946 ml
1 pt = 2 cups = 16 oz = 0.473 L = 473 ml
1 cup = 8 oz = 0.24 L = 240 ml
1 fl oz = 2 tbsp = 6 tsp = 1.8 in³ = 0.02957 L = 29.57 ml
1 tbsp = 3 tsp = 0.5 oz = 14.78 ml
1 tsp = 0.166 oz = 4.92 ml
1 ml = 0.0338 fl oz

Mass (Weights)

1 U.S. ton = 2,000 lb = 0.907 metric ton
1 metric ton = 2,205 lb (avoir)
1 lb = 16 oz = 453.6 g = 0.4536 kg
1 oz = 28.35 g

Velocity Measure

1 mph = 5,280 ft/hr = 88 ft/min = 1.467 ft/sec
1 m/sec = 196.85 ft/min = 2.24 mph
1 m/sec = 1.942 knots

Pressure Measure

1 atm = 14.7 psi = 406.8 inches H₂O @ 40 °F
1 atm = 29.92 inches Hg @ 40 °F = 760 mm Hg @ 4 °C
1 atm = 1.01325 bar
1 psi = 27.68 inches H₂O @ 40 °F = 144 lb/ft² = 703.06 kg/m² @ 4 °C
1 psi = 6.8948 x 10³ pascals = 6.895 Kpa = 2.036 inches Hg
1 psi = 70.3 g per cm²
1 pascal = 10 dynes/cm² = 1.45 x 10⁻⁴ psi

Temperature

°C = 5/9 (°F - 32)
°F = (9/5 °C) + 32
°K = °C + 273.16
°R = °F + 459.69

* For additional conversions see <http://www.abe.msstate.edu/tools.htm>

Abbreviations

A = acres	in = inches	pt = pints
ai = active ingredient	in ² = square inches	qt = quarts
atm = atmospheres	in ³ = cubic inches	tbsp = tablespoons
bu = bushels	kg = kilograms	tsp = teaspoons
cm = centimeters	km = kilometers	yd = yards
cm ² = square centimeters	L = liters	°C = Degrees Celsius
fl oz = fluid ounces	mi = miles	°F = Degrees Fahrenheit
ft = feet	ml = milliliters	°R = Degrees Rankin
ft ² = square feet	m = meters	°K = Degrees Kelvin
ft ³ = cubic feet	m ² = square meters	
g = grams	mm = millimeters	
gal = gallons	mph = miles per hour	
H ₂ O = water	oz = ounces	
Hg = mercury	psi = pounds per square inch	