

Metric And U.S. Conversion Formulas

Instructions: Multiply the units in column #1 by the factor in column #2 to obtain the units in column #3. Conversely, one can take the units in column #3 and divide by the factor in column #2 to obtain the units in column #1.

<u>Unit (1)</u>	<u>Factor (2)</u>	<u>Unit (3)</u>
Atmospheres	14.7	PSI
Atmospheres	33.9	Feet of Water
Atmospheres	29.9	Inches of Mercury
Bar	1.0197	Kilograms/cm ²
Bar	14.5038	PSI
Barrels (Oil)	42.0	U.S. Gallons
Barrels (Oil)	35.0	Imperial Gallons
Centimeters	0.3937	Inches
Centipoises	0.01	Poises
Centistokes	0.01	Stokes
Centistokes = Centipoises/Specific Gravity		
Cubic Centimeters	1.0	Milliliters
Cubic Centimeters	0.061	Cubic Inches
Cubic Centimeters	0.000264	U.S. Gallons
Cubic Centimeters	0.000218	Imperial Gallons
Cubic Feet	7.48	U.S. Gallons
Cubic Feet	6.23	Imperial Gallons
Cubic Feet	1728.0	Cubic Inches
Cubic Feet	28.32	Liters
Cubic Feet (Water)	62.4	Pounds
Cubic Feet (Water)	998.8	Ounces
Cubic Inches	0.00433	U.S. Gallons
Cubic Inches	0.00364	Imperial Gallons
Cubic Inches	16.39	Cubic Centimeters
Cubic Inches	0.00058	Cubic Feet
Cubic Inches	0.0164	Liters
Cubic Feet/Second	448.83	U.S. Gallons/Minute
Cubic Meters	264.0	U.S. Gallons
Cubic Meters	220.0	Imperial Gallons
Cubic Meters	35.3	Cubic Feet
Cubic Meters	1.308	Cubic Yards
Cubic Meters/Hour	4.403	U.S. Gallons/Minute
Cubic Yards	27.0	Cubic Feet
Cubic Yards	0.765	Cubic Meters
Drams (Fluid)	3.7	Milliliters
Feet	30.48	Centimeters
Feet of Water	0.0295	Atmospheres
Feet of Water	0.4336	PSI
Feet of Water	0.8826	Inches of Mercury
Gallons (U.S.)	231.0	Cubic Inches
Gallons (U.S.)	0.833	Imperial Gallons
Gallons (U.S.)	128.0	Ounces (Fluid)
Gallons (U.S.) Water	8.337	Pounds
Gallons (U.S.)	3.785	Liters

Atmospheres	14.7	PSI
Gallons (U.S.)	0.0038	Cubic Meters
Gallons (Imperial)	277.3	Cubic Inches
Gallons (Imperial)	1.2	U.S. Gallons
Gallons (Imperial)	154.0	Ounces (Fluid)
Gallons (Imperial)	4.546	Liters
Gallons (Imperial)	0.0045	Cubic Meters
U.S. Gallons of Water	8.33	Pounds of Water
Imperial Gallons of Water	10.02	Pounds of Water
Horsepower	33,000.0	Foot Pounds/Minute
Horsepower	746.0	Watts
Inches	2.54	Centimeters
Inches of Mercury	1.133	Feet of Water
Inches of Mercury	0.4912	PSI
Inches of Mercury	0.0334	Atmospheres
Inches of Water	0.074	Inches of Mercury
Inches of Water	0.036	PSI
Kilograms/cm ²	0.9807	Bar
Kilograms/cm ²	14.22	PSI
Kilograms/cm ²	28.96	Inches of Mercury
Kilograms/Cubic Meters	0.001	Specific Gravity
Kilograms/Hour	0.0044	U.S. Gallons/Minute
Kilowatts	1.341	Horsepower
Kilopascals (kPa)	0.145	PSI
Liters	1,000.0	Cubic Centimeters
Liters	0.264	U.S. Gallons
Liters	0.220	Imperial Gallons
Liters	33.8	Ounces (Fluid)
Liters/Minute	0.2642	U.S. Gallons/Minute
Meters	39.37	Inches
Meters	3.281	Feet
Micron	0.00003937	Inches
Mil	0.001	Inches
Millimeters	0.06	Cubic Inches
Millimeters	0.03937	Inches
Millimeters of Mercury	0.0394	Inches of Mercury
Ounces (Fluid)	1.805	Cubic Inches
Pounds/Cubic Foot	0.1198	Specific Gravity
Pounds/Gallon	0.0160	Specific Gravity
Pounds/Hour	0.002	U.S. Gallons/Minute
Pounds of Water	0.12	U.S. Gallons of Water
Pounds of Water	0.10	Imperial Gallons of Water
PSI	2.306	Feet of Water
PSI	6.895	Kilopascals (kPa)
PSI	2.037	Inches of Mercury
PSI	0.068	Atmospheres
PSI	0.06895	Bar