

Equivalents and Conversion Factors

This table may be used in two ways:

(1) *Multiply* the unit under column A by the figure under column B, the result is the unit under column C.

(2) *Divide* the unit under column C by the figure under column B, the result is then the unit under column A.

A	B	C	A	B	C
MULTIPLY	BY	TO OBTAIN	MULTIPLY	BY	TO OBTAIN
Atmospheres	14.70	Pounds per square inch	Inches of water (68°F)	0.03607	Pounds per sq. in.
Atmospheres	1.033	Kilograms per sq. cm	Inches of water (68°F)	0.07343	Inches of mercury (0°C)
Atmospheres	29.92	Inches of mercury	Kilograms	2.205	Pounds
Atmospheres	760.0	Millimeters of mercury	Kilograms	0.001102	Short tons (2000 lbs.)
Atmospheres	407.5	Inches of water	Kilograms	35.27	Ounces
Atmospheres	33.96	Feet of water	Kilograms per minute	132.3	Pounds per hour
Atmospheres	1.013	Bars	Kilograms per sq. cm	14.22	Pounds per sq. in.
Atmospheres	101.3	KiloPascals	Kilograms per sq. cm	0.9678	Atmospheres
Barrels	42.00	Gallons (U.S.)	Kilograms per sq. cm	28.96	Inches of mercury
Bars	14.50	Pounds per square inch	Kilograms per cubic meter	0.0624	Pounds per cubic foot
Bars	1.020	Kilograms per sq. cm	KiloPascals	0.1450	Pounds per sq. in.
Bars	100.0	KiloPascals	KiloPascals	0.0100	Bars
			KiloPascals	0.01020	Kilograms per sq. cm
Centimeters	0.3937	Inches	Liters	0.03531	Cubic feet
Centimeters	0.03281	Feet	Liters	1000.	Cubic centimeters
Centimeters	0.010	Meters	Liters	0.2642	Gallons
Centimeters	0.01094	Yards	Liters per hour	0.004403	Gallons per minute
Cubic centimeters	0.06102	Cubic inches	Meters	3.281	Feet
Cubic feet	7.481	Gallons	Meters	1.094	Yards
Cubic feet	0.1781	Barrels	Meters	100.0	Centimeters
Cubic feet per minute	0.02832	Cubic meters per minute	Meters	39.37	Inches
Cubic feet per second	448.8	Gallons per minute	Pounds	0.1199	Gallons H ₂ O @ 60F (U.S.)
Cubic inches	16.39	Cubic centimeters	Pounds	453.6	Grams
Cubic inches	0.004329	Gallons	Pounds	0.0005	Short tons (2000 lbs.)
Cubic meters	264.2	Gallons	Pounds	0.4536	Kilograms
Cubic meters per hour	4.403	Gallons per minute	Pounds	0.0004536	Metric tons
Cubic meters per minute	35.31	Cubic feet per minute	Pounds	16.00	Ounces
Standard cubic feet per min.	60.00	Standard cubic ft. per hr	Pounds per hour	6.324/M.W.	SCFM
Standard cubic feet per min.	1440.	Standard cubic ft. per day	Pounds per hour	.4536	Kilograms per hour
Standard cubic feet per min.	0.02716	Nm ³ /min. (0°C, 1 Bara)	Pounds per hour liquid	0.002/Sp.Gr.	Gallons per minute liquid (at 60F)
Standard cubic feet per min.	1.630	Nm ³ /hr. (0°C, 1 Bara)	Pounds per sq. inch	27.73	Inches of water (68°F)
Standard cubic feet per min.	39.11	Nm ³ /day (0°C, 1 Bara)	Pounds per sq. inch	2.311	Feet of water (68°F)
Standard cubic feet per min.	0.02832	Sm ³ /min.	Pounds per sq. inch	2.036	Inches of mercury (0°C)
Standard cubic feet per min.	1.699	Sm ³ /hr.	Pounds per sq. inch	0.07031	Kilograms per sq. cm
Standard cubic feet per min.	40.78	Sm ³ /day	Pounds per sq. inch	0.0680	Atmospheres
Feet	0.3048	Meters	Pounds per sq. inch	51.71	Millimeters of mercury (0°C)
Feet	0.3333	Yards	Pounds per sq. inch	0.7043	Meters of water (68°F)
Feet	30.48	Centimeters	Pounds per sq. inch	0.06895	Bar
Feet of water (68°F)	0.8812	Inches of mercury (0°C)	Pounds per sq. inch	6.895	KiloPascals
Feet of water (68°F)	0.4328	Pounds per square inch	Specific gravity (of gas or vapors)	28.97	Molecular weight (of gas or vapors)
Gallons(U.S.)	3785.	Cubic centimeters	Square centimeter	0.1550	Square inch
Gallons(U.S.)	0.1337	Cubic feet	Square inch	6.4516	Square centimeter
Gallons(U.S.)	231.0	Cubic inches	Square inch	645.16	Square millimeter
Gallons(Imperial)	277.4	Cubic inches	SSU	0.2205 x SG	Centipoise
Gallons(U.S.)	0.8327	Gallons (Imperial)	SSU	0.2162	Centistoke
Gallons(U.S.)	3.785	Liters	Water (cubic feet @ 60F)	62.37	Pounds
Gallons of water (60°F)	8.337	Pounds	Temperature:		
Gallons of liquid per minute	500 x Sp. Gr.	Pounds per hour liquid	Centigrade	=	5/9 (Fahrenheit - 32)
Gallons per minute	0.002228	Cubic feet per second	Kelvin	=	Centigrade + 273
Gallons per minute (60°F)	227.0 x SG	Kilograms per hour	Fahrenheit	=	9/5 (Centigrade)+32
Gallons per minute	.06309	Liters per second	Fahrenheit	=	Rankine -460
Gallons per minute	3.785	Liters per minute	Fahrenheit	=	(9/5 Kelvin) -460
Gallons per minute	.2271	M ³ /hr.			
Grams	.03527	Ounces			
Inches	2.540	Centimeters			
Inches	0.08333	Feet			
Inches	0.0254	Meters			
Inches	0.02778	Yards			
Inches of mercury (0°C)	1.135	Feet of water (68°F)			
Inches of mercury (0°C)	0.4912	Pounds per square inch			
Inches of mercury (0°C)	0.03342	Atmospheres			
Inches of mercury (0°C)	0.03453	Kilograms per sq. cm			