

# Unit Conversion Table – Volume



Millilitre or cm <sup>3</sup> ( mL / cm <sup>3</sup> )	Litre ( L )	Kilolitre or m <sup>3</sup> ( kL / m <sup>3</sup> )	Cubic Inch ( in <sup>3</sup> )	Fluid Ounce (US) ( fl oz )	Gallon (US) ( Gal )	Cubic Foot ( ft <sup>3</sup> )
1	0.001	0.000001	0.06102374	0.03381402	0.00026417	0.00003531
10	0.01	0.00001	0.61023744	0.33814023	0.00264172	0.00035315
16.3871	0.01638706	0.00001639	1	0.55411255	0.00432900	0.0005787
29.5735	0.02957353	0.00002957	1.8046875	1	0.0078125	0.00104438
50	0.05	0.00005	3.05118720	1.69070114	0.01320860	0.00176573
100	0.1	0.0001	6.10237441	3.38140227	0.02641721	0.00353147
163.87	0.16387064	0.00016387	10	5.54112554	0.04329004	0.00578704
295.74	0.29573529	0.00029574	18.0469	10	0.078125	0.01044379
500	0.5	0.0005	30.5119	16.9070	0.13208603	0.01765733
1,000	1	0.001	61.0237	33.8140	0.26417205	0.03531467
1,638.71	1.63870640	0.00163871	100	55.4113	0.43290043	0.05787037
2,957.35	2.95735300	0.00295735	180.47	100	0.78125000	0.10443793
3,785.41	3.78541178	0.00378541	231	128	1	0.13368056
10,000	10	0.01	610.24	338.14	2.64172052	0.35314667
16,387	16.3871	0.01638706	1,000	554.11	4.32900433	0.5787037
28,317	28.3168	0.02831685	1,728	957.51	7.48051948	1
29,573	29.5735	0.02957353	1,804.69	1,000	7.8125	1.04437934
37,854	37.8541	0.03785412	2,310	1,280	10	1.33680556
100,000	100	0.1	6,102.37	3,381.40	26.4172	3.53146667
163,871	163.8706	0.16387064	10,000	5,541.13	43.2900	5.78703704
283,168	283.1685	0.28316847	17,280	9,575.06	74.8052	10
295,735	295.7353	0.29573530	18,047	10,000	78.1250	10.4438
378,541	378.5412	0.37854118	23,100	12,800	100	13.3681
1,000,000	1,000	1	61,023	33,814	264.17	35.3147
1,638,706	1,638.71	1.63870640	100,000	55,411	432.90	57.8704
2,831,685	2,831.68	2.83168466	172,800	95,751	748.05	100

**Metric System:**  
 1 Kilolitre = 1,000 Litres  
 1 Megalitre = 1,000,000 Litres  
 1 Gigalitre = 1,000,000,000 Litres

**U.S. Customary System:**  
 1 Cup = 8 fl oz  
 1 Pint = 16 fl oz  
 1 Quart = 32 fl oz  
 1 Gallon = 128 fl oz  
 1 Cubic Yard = 27 ft<sup>3</sup>

**Volume Formulas:**  
 Cuboid: Length x Width x Height  
 Cylinder/Pipe:  $\pi \times \text{Radius}^2 \times \text{Length}$