

### Common Volume Units

Unit	Equivalent	Use Case
1 cubic meter (m <sup>3</sup> )	1000 liters (L)	Large structures, tanks
1 cubic centimeter (cm <sup>3</sup> )	1 milliliter (mL)	Small objects, labs
1 cubic millimeter (mm <sup>3</sup> )	0.001 cm <sup>3</sup>	Precision measurements
1 cubic foot (ft <sup>3</sup> )	28.316 liters	Construction (US)
1 cubic inch (in <sup>3</sup> )	16.387 cm <sup>3</sup>	Small volume calculations

### Liquid Volume Conversions

Unit	Equivalent	Use Case
1 liter (L)	1000 mL	Liquids, containers
1 US gallon	3.785 liters	Water, fuel
1 Imperial gallon	4.546 liters	UK measurements
1 quart (US)	0.946 L	Cooking, storage
1 pint (US)	0.473 L	Food, beverages

### Cooking & Everyday Volume Units

Unit	Equivalent	Use Case
1 cup (US)	236.6 mL	Cooking
1 fluid ounce (US)	29.57 mL	Drinks
1 tablespoon	14.79 mL	Recipes
1 teaspoon	4.93 mL	Small quantities

### Large Volume Units

Unit	Equivalent	Use Case
1 cubic kilometer (km <sup>3</sup> )	1 trillion m <sup>3</sup>	Geography, water bodies
1 acre-foot	1233.5 m <sup>3</sup>	Irrigation systems
1 cubic yard (yd <sup>3</sup> )	0.7646 m <sup>3</sup>	Construction

### Scientific & Technical Units

Unit	Equivalent	Use Case
1 microliter (μL)	0.001 mL	Lab measurements
1 nanoliter (nL)	0.000001 mL	Advanced science
1 barrel (oil)	159 liters	Petroleum industry