

MEASURING THE DENSITY OF A LIQUID

STUDENT BOOK Chapter 1, page 23

TOOLBOX Page 37

Goal

Measure the density of a liquid.

Materials

- balance (accurate to 0.01 g)
- 25-mL graduated cylinder
- wash bottle of distilled water *or* container of methanol

Procedure



1. Weigh and record the mass of the graduated cylinder.
2. Pour 25 mL of liquid into the graduated cylinder.
3. Weigh the graduated cylinder (with liquid).
4. Calculate the density of the liquid.
5. Clean up and put away materials.

Results

Record your results in the table below. Give the table a title.

Title:

Liquid	Mass of cylinder (g)	Total mass (g)	Density (g/mL)



Name: _____ Group: _____ Date: _____

Calculations

Write down your calculations in the boxes below.

Calculation of liquid mass

Calculation of liquid density

Reflecting on the lab technique

1. What is the density of each liquid chosen for this lab?

2. Compare the density obtained with data provided in tables of characteristic properties. Are they similar? If not, explain why.