

Experiment 1 Lab Report

Determining the Densities of Liquids and Solids

OBJECTIVE:

The objective of Experiment 1 was to find the density of an unknown liquid and an unknown solid.

DISCUSSION:

Density is a standard physical property of a liquid or solid. The density of a subject is expressed as a ratio of the subject's mass to its' volume in the following formula: $\text{Density} = \text{Mass} \div \text{Volume}$. At any specified temperature and pressure the density of a sample is constant. Given the specific density of water at various temperatures and solving the density formula for volume we can accurately determine the volume of our container. The mass of the unknown samples are accurately obtained by weighing and using the measuring by difference method. After obtaining the mass and volume of the unknown sample we can calculate the density of that unknown liquid or solid. By design, Experiment 1 provides the data necessary to calculate the density of the unknown liquid and solid.

EXPERIMENTAL PROCEDURE:

See attached pages.

DATA:

The data collected and calculated that was used to determine the volume of the pycnometer used throughout the experiment is represented in Table 1:

Table 1

	Trial 1	Trial 2
Mass of empty stoppered flask	63.517g	63.515g
Mass of stoppered flask and water	122.194g	122.20g
Mass of water (calculated)	58.677g	58.692g
Temperature of water	20.9°C	21.4°C
Density of water*	0.9980 g/mL	0.9979 g/mL

*Density of water based on temperature, retrieved from - jupiter.plymouth.edu

The data collected and calculated that was used to determine the density of unknown liquid 'B' is represented in Table 2:

Table 2

	Trial 1	Trial 2
Mass of stoppered flask and liquid B	111.590g	111.581g
Mass of liquid (calculated)	48.073g	48.066g
Volume of liquid B (from Table 1 calculation)	58.79mL	58.82mL

Lab Report Chemistry Matriculation Density Of Water

JR Anderson



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