

Experiment-1

Object: To understand the Standard laboratory devices for weight and volume measurement and Calibration of Analytical Equipment.

The experiment is divided into two parts. The purpose of this experiment is to make the students:

- familiar with commonly used laboratory glassware and equipments,
- learn to take observations,
- analyze data and
- prepare standard solution.
- Learn to Caliberate Analytical Instrument.

Learning objectives

By the end of this experiment the student shall be able to:

- understand the safety measures of laboratory.
- know how to make correct measurements using burette, pipette and graduated cylinder.
- know the mass of compound weighed out and transferred to volumetric flask.
- volume of the volumetric flask used to make the standard solution.
- know how to use digital analytical balance.
- record experimental observations.
- prepare standard solution.
- Caliberate Equipment

(A) Use of laboratory equipments and understanding the standard units of measurement.

Measurement of Weight:

Units of Weight: e.g. Milligrams (mg), Grams (g)

Analytical Balance: An instrument used for measurement of weight in laboratory is analytical balance.

It is an accurate and precise instrument to measure weight.

The most commonly used **analytical balance** is **beam balance**, precision scales, and moisture analyzers.

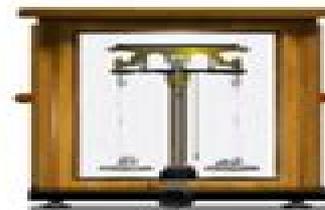
An analytical balance measures masses to within 0.0001 g.

The balance is enclosed in a glass case in order to avoid disturbances due to air (Fig. 1).

Precautions:

1. Do not exceed capacity.
2. Use tong/forceps to transfer sample and weights.
3. Protect from hot/corrosive substance.
4. Cleaning the balance after every use.
5. Vibration free table.

Figure 1: A Beam Balance



Measurement of Volume:

Units of Volume: e.g. Milli liter (mL), liter (L)

For accurate measurement of volume of solutions, volumetric analysis require various types of apparatus as:

Experiment 1 Introduction To Lab Equipment 1 Synopsis

RC Schank



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