

Gravimetric Analysis

Chemistry

Determining quantity by mass, and the technique for constant mass.

The classical quantitative method.

1

Precipitate the analyte

With an excess of a suitable reagent.

2

Filter

Through pre-weighed filter paper or a sintered crucible.

3

Wash

To remove adsorbed impurities.

4

Dry and weigh

In an oven or desiccator.

5

Heat and reweigh

Until two consecutive masses agree — constant mass.

WHY CONSTANT MASS

Residual water inflates the mass

One weighing cannot tell you it has all gone

Agreement between successive weighings can

Gravimetric analysis is slow and among the most accurate methods available, which is why it defines reference values.