

Titration

Chemistry

The procedure, and where accuracy is won or lost.

Standard acid-base titration.

1 Rinse everything correctly

Burette with the solution it will hold; pipette likewise; conical flask

2 Pipette a fixed volume

Into the conical flask. Read to the bottom of the meniscus, at eye

3 Add indicator

A few drops only — too much affects the endpoint.

4 Rough titre first

To find the approximate endpoint.

5 Accurate titres dropwise near the end

Swirling continuously.

6 Repeat to concordance

Mean of the concordant results only.

COMMON ERRORS

Rinsing the conical flask with the solution — dilutes nothing, adds moles

Air bubble in the burette tip

Reading the top of the meniscus

Include the rough titre in the mean and you lose the marks. Only concordant accurate titres are averaged.