

Edexcel IGCSE Chemistry

Topic 2: Inorganic chemistry

Acids, alkalis and titrations

Notes



2.31 know that acids in aqueous solution are a source of hydrogen ions and alkalis in an aqueous solution are a source of hydroxide ions

- Acids produce H^+ ions in aqueous solutions
- Alkalis produce OH^- ions in aqueous solutions

2.32 know that alkalis can neutralise acids

- A neutralisation reaction is one between an acid and a base
- the ionic equation for any alkali-acid neutralisation reaction is:
 $H^+(aq) + OH^-(aq) \rightarrow H_2O(l)$

2.33 (chemistry only) describe how to carry out an acid-alkali titration

How to carry out a titration:

1. Wash burette using acid and then water
2. Fill burette to 100cm^3 with acid with the meniscus' base on the 100cm^3 line
3. Use 25cm^3 pipette to add 25cm^3 of alkali into a conical flask, drawing alkali into the pipette using a pipette filler
4. Add a few drops of a suitable indicator to the conical flask (eg: phenolphthalein which is pink when alkaline and colourless when acidic)
5. Add acid from burette to alkali until end-point is reached (as shown by indicator)
6. The titre (volume of acid needed to exactly neutralise the acid) is the difference between the first (100cm^3) and second readings on the burette)
7. Repeat the experiment until you get concordant results

