

OCR (A) Chemistry A-level

Topic 2.1.4 - Acids

Flashcards

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When an acid is added to water what ion is released into the solution?



When an acid is added to water what ion is released into the solution?

Hydrogen ion , H^+



Define acid



Define acid

Proton donor



Describe the dissociation of a strong acid



Describe the dissociation of a strong acid

Full dissociation



Define base



Define base

Proton acceptor



Which base is used to treat acid indigestion?



Which base is used to treat acid ingestion?

Magnesium hydroxide



What are alkalis?



What are alkalis?

Bases that can dissolve in water to form aqueous hydroxide ions



What are amphoteric substances?



What are amphoteric substances?

Substances that can act as acids and bases



What is formed when acid reacts with carbonate?



What is formed when acids react with carbonate?

Salt, carbon dioxide and water



What is a salt?



What is a salt?

A compound that is formed when H^+ of an ion is replaced by a metal ion or positive ion



What is formed when acids react with metal oxide?



What is formed when acids react with metal oxide?

Salt and water



What is formed when acid reacts with alkali?



What is formed when acid reacts with alkali?

Salt and water



What is formed when acids react with metal?



What is formed when acids react with metal?

Salt and hydrogen



Why are the products same
when acid reacts with alkali or
metal oxides?



Why are the products same when acids react with alkali or metal oxides?

Both alkali and metal oxides are types of bases



How are ammonium salts formed?



How are ammonium salts formed?

When acid reacts with aqueous ammonia



What are hydrated crystals?



What are hydrated crystals?

A crystalline structure containing water



What does anhydrous crystals mean?



What does anhydrous crystals mean?

Crystalline form that contains no water



What does a dot formula indicate?



What does a dot formula indicate?

The amount of water present in a crystalline structure



Write down the methods to
carry out a titration



Write down the methods to carry out a titration

1. Using a pipette, measure the volume of a solution
2. Add the solution into a conical flask and add an indicator into it
3. Add the other solution into a burette and record the volume
4. Slowly add the solution in the burette into the conical flask
5. Swirl the mixture continuously until the end point is reached
6. Repeat until concordant results are obtained



What is the colour of methyl orange in an acid, base and at end point?



What is the colour of methyl orange in an acid, base and at end point?

- Acid - red
- Base - yellow
- End point - orange

