

AQA Chemistry A-Level

RP6 - Organic tests

Flashcards



How do you test for an alcohol?



How do you test for an alcohol?

- Add 1 cm³ of alcohol to a test tube, add a small piece of sodium.
- Presence of alcohol is indicated by a white precipitate and effervescence.



How do you distinguish between different alcohol types? (primary, secondary, tertiary etc.)



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Heat under reflux with acidified potassium dichromate (VI). Primary and secondary alcohols will be oxidised- shown by a colour change from **orange** to **green**. Tertiary alcohols cannot be oxidised and will remain orange.



How do you test for an aldehyde?



How do you test for an aldehyde?

- Add Fehling's solution to the sample.
- If an aldehyde is present, a red precipitate will form.



How do you test for an alkene?



How do you test for an alkene?

- Add bromine water to the sample.
- If an alkene is present, the bromine water will decolourise.



How do you test for a carboxylic acid?



How do you test for a carboxylic acid?

- Add Na_2CO_3 to the sample.
- If a carboxylic acid is present, CO_2 will be given off.



How do you test for a haloalkane?



How do you test for a haloalkane?

- Add 5 drops of haloalkane to about 1 cm³ of NaOH solution in a test tube.
- Warm the contents of the test tube at 60°C for a few minutes.
- Then add 2 cm³ of dilute nitric acid and 1 cm³ of silver nitrate solution.
- If a haloalkane is present, a precipitate should form. The colour of the precipitate formed depends on the halide ion present in solution.
- White = Chloride ions, Cream = Bromide ions, Yellow = Iodide ions.



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Hazard	Risk	Control
Bunsen burner	Burns.	Keep away from flammable chemicals and away from the edge of the desk.
Chemicals	<ul style="list-style-type: none">- May be an irritant or corrosive, causing irritation to skin, eyes, lungs.- May be toxic- May be Flammable.	Handle with care and while wearing gloves. Wear eye protection. Keep away from the edge of the desk and from an open flame. Don't ingest.
Glassware i.e beakers, test tubes.	May break and cut you.	Handle with care. Keep away from edge of the desk.

