Qualitative tests for organic functional groups: alcohols

1. 3–4 drops $\text{Cr}_2\text{O}_7^{2-} / \text{H}^+$

2. Observe any colour changes

3. 3–4 drops sample
Available from rsc.li/38KQFpE

Qualitative tests for organic functional groups: aldehydes

1. 2.5 cm³ AgNO₃

2. 1 drop NaOH

3. NH₃(aq) dropwise with agitation until precipitate dissolves

4. Hot water (60-70°C)

5. 2 cm³ sample

6. Observe for 15 minutes

7. Dispose of the foul-water drain solution
Qualitative tests for organic functional groups: carboxylic acids

1. 2 cm³ sample
2. 3–4 drops NaHCO₃(aq)
3. Observe effervescence

Available from rsc.li/38KQFpE

RSC Practical videos (16–18)
1. 10 drops sample
2. 100 cm³ tap water
3. 2 cm³ ethanol
4. 2.5 cm³ AgNO₃(aq)
5. Warm - 5 minutes
6. Mix solutions
7. Observe any precipitates
Q1: 3-4 drops sample
Q2: 1 cm$^3$ Br$_2$(aq)
Q3: Agitate the tube
Q4: Observe bromine colourless water turning