Wednesday 9th March 2022

Making Salts – Required Practical

Starter

For example:

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Salts

A salt is a compound which is formed when the hydrogen in an acid is replaced by the metal in a reaction. The metal must be above hydrogen in the reactivity series.

Method

1. Using a measuring cylinder, measure 20cm3 of sulfuric acid into the beaker.
2. Add half a spatula of copper (II) oxide powder into the acid and stir using the stirring rod.
3. Stand the beaker on a tripod and gauze, and warm gently.
4. Keep the acid warm (but not boiling) until the solution turns blue, showing copper sulphate has formed.
5. Allow the solution to cool.
6. Once cooled, filter the mixture and discard the residue.
7. Pour the filtrate into an evaporating basin. Heat the solution gently until the volume of the solution has been approximately halved.
8. Remove from the heat and leave to crystalise on a windowsill overnight.

Safety

Bunsen Burner safety – tie back long hair, beware of hot equipment

Copper (II) Oxide powder is harmful and clings to surfaces.

Sulfuric Acid (1 mol/cm3) – Irritant.