

AS and A-level Chemistry practicals: Equipment set up

Practical 8: Measuring the EMF of an electrochemical cell



- Salt bridges can be bought from suppliers or made from u-shaped glass tubing with each end firmly plugged with cotton wool.
- The sodium chloride solution is contained within the u-tube with the cotton wool providing a porous contact.

Salt bridge





Standard cell with a bridge made of saturated filter paper





Apparatus set up using a glass salt bridge





Apparatus to measure comparative electrode potentials of different metals

- No solutions in beakers.
- A piece of filter paper soaked in sodium chloride separates the two metal strips.
- These metals are connected to a digital voltmeter.

Apparatus to measure comparative electrode potentials of different metals



