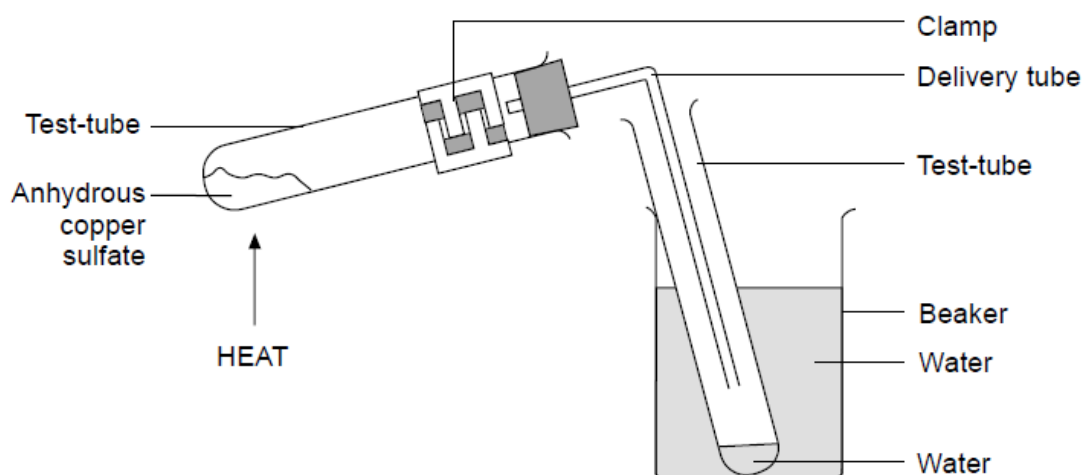


Heating Copper Sulphate



1. Set up the apparatus as shown.
2. Heat the blue copper(II) sulfate until it has turned white.
3. Act quickly to prevent suck back. Lift the clamp stand so that the delivery tube does not reach into the water in the test-tube.
4. Allow the anhydrous copper(II) sulfate to cool.
5. Hold the tube containing anhydrous copper(II) sulfate in one hand and pour the condensed water onto the powder.

Questions

1. Why is one test-tube placed in a beaker of cold water?
2. What do the following words mean (*a*) hydrated, (*b*) anhydrous, (*c*) product, (*d*) condensed and (*e*) reaction?
3. The reaction
Hydrated copper(II) sulfate \rightleftharpoons anhydrous copper(II) sulfate + water
is called a reversible reaction. Why?