Crystal growing

Name	Crystal growing
Description	Experimenting with crystal growing
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Repository	

Copper Sulfate



Picture 1.1: Materials

The first crystals, that we are growing are copper sulfate crystals. They give an intense blue color and are quite easy to grow. For this, we need to acquire Copper(II)-sulfate pentahydrate. The chemical formula is: $\ce{ CuSO4 * 5 H2O }$

Gather your materials:

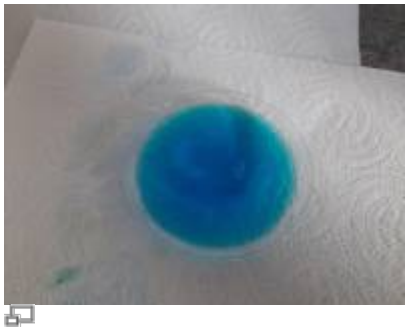
- Copper(II)-sulfate pentahydrate
- Water
- Beaker
- Glass dish
- Spoon



Picture 1.2: Finished solution of Copper(II)-sulfate pentahydrate

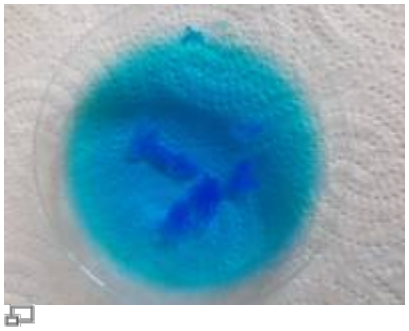
Begin with boiling about 800ml of water. When it is boiling, transfer it to the beaker and start adding Copper(II)-sulfate pentahydrate until nothing will dissolve anymore. It should have a deep blue color, see picture 1.2.

Pour a little of the solution onto the glass dish, this will be used to grow some seed crystals. See picture 1.3.

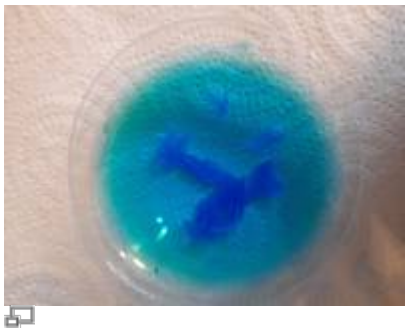


Picture 1.3: Solution on glass dish

Now, we have to wait, until we have seed crystals:



Picture 1.4: After 2 hours



Picture 1.5: After 3 hours

After about 3 hours, we can pick out one of the seed crystals and fix them to a piece of string (picture 1.5).



Picture 1.6: Seed crystal on string



Picture 1.7: Seed crystal in solution

This seed crystal can now be hung into the solution.

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