

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: $\text{CuSO}_4 \cdot 5 \text{H}_2\text{O}$

Gather your materials:

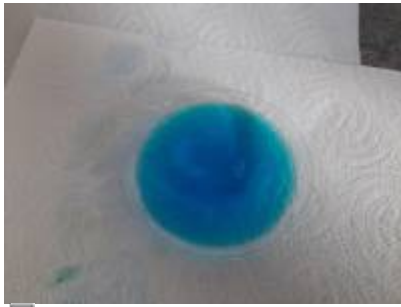
- Copper(II)-sulfate pentahydrate
- Water
- Beaker
- Glass dish
- Spoon



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

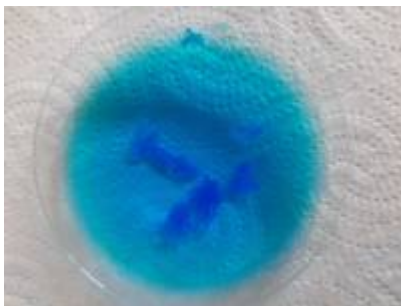
Begin with boiling about 800ml of water. When it is boiling, transfer it to the beaker and start adding Copper(II)-sulfate pentahydrate until nothing will dissolve anymore. It should have a deep blue color, see picture 1.2.

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

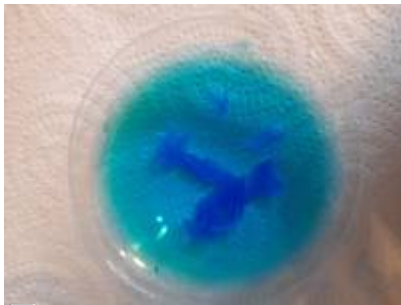


Picture 1.3: Solution on glass dish

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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