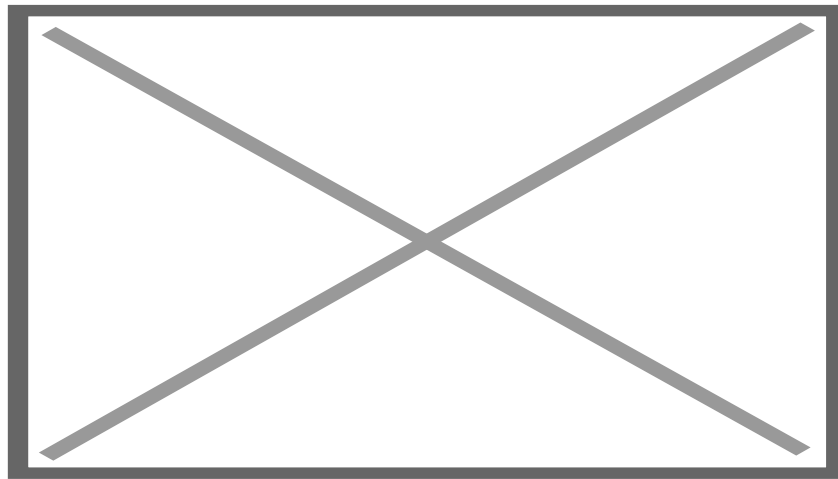


# Gently 'water turns into ice' in a flash. Too simple

Frozen - ice queen makes us look surprised and admired by the amazing skills. Just with a snowball everywhere, or touch the water, the entire lake turned into ice instantly. You can absolutely experience that great feeling right at home with the following extremely interesting experiment.

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Turn water into ice

**Looks like a mysterious magic trick, right? But how, and why does this happen?**

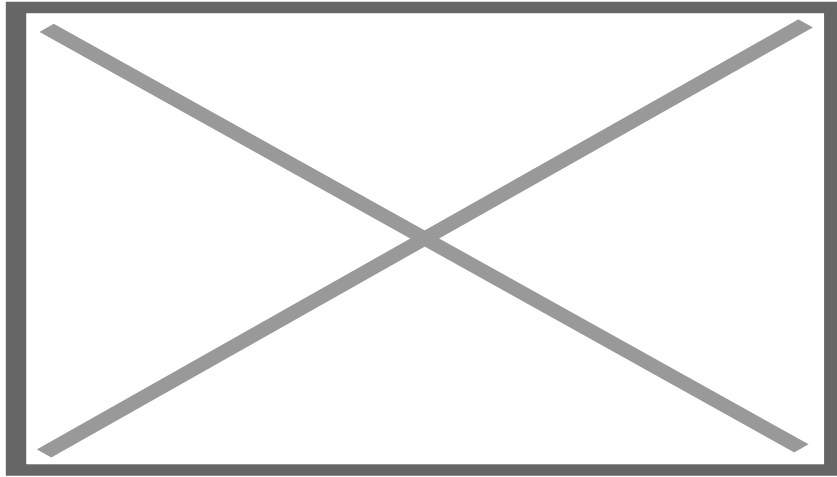
Just a little chemical knowledge and simple materials you can accomplish this magic.

Viewers are easily fooled and think that the solution in the experiment is water. It is actually **hydrated sodium acetate** ( $\text{NaCH}_3\text{COO}\cdot 3\text{H}_2\text{O}$ ). After a few steps of treatment, only one pinch of sodium acetate powder is normal, the solution will immediately crystallize.

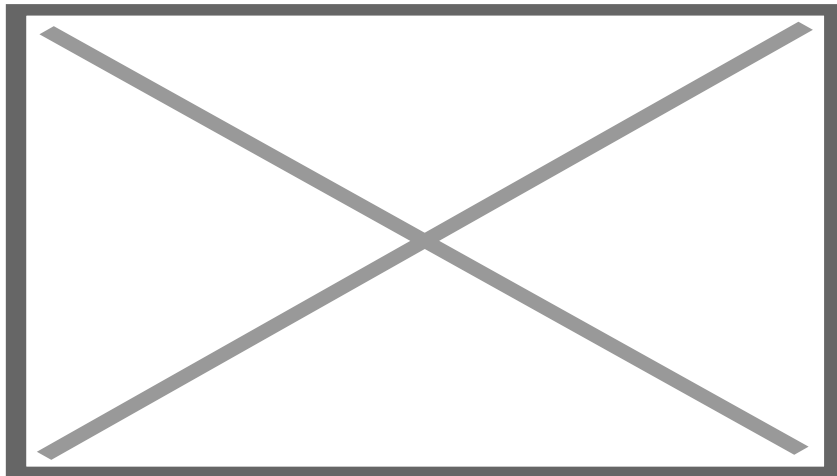
**Ingredients :** vinegar and baking soda ( $\text{NaHCO}_3$ ) - which can be easily found at pharmacies or bakery stores.

**How to do the following :**

Mix 1 liter of vinegar, 1kg of baking soda and 200ml of water. We will get a mixture as follows.

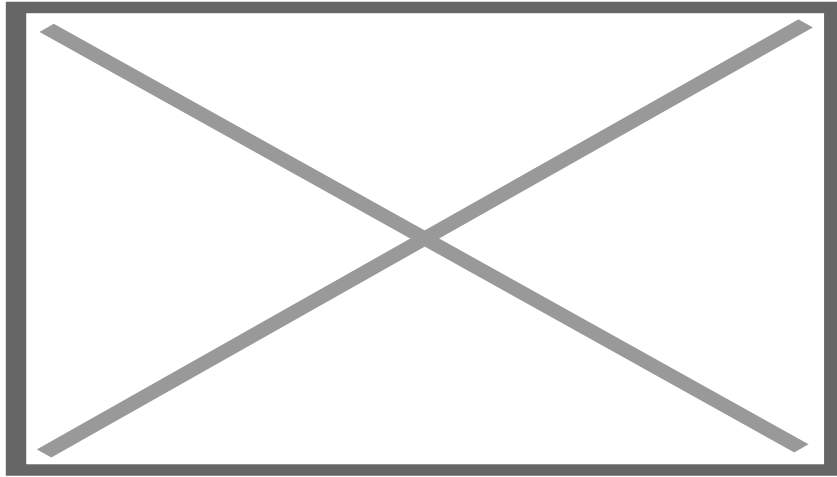


Effervescent mixture due to CO<sub>2</sub> escaping



This is saturated sodium acetate powder

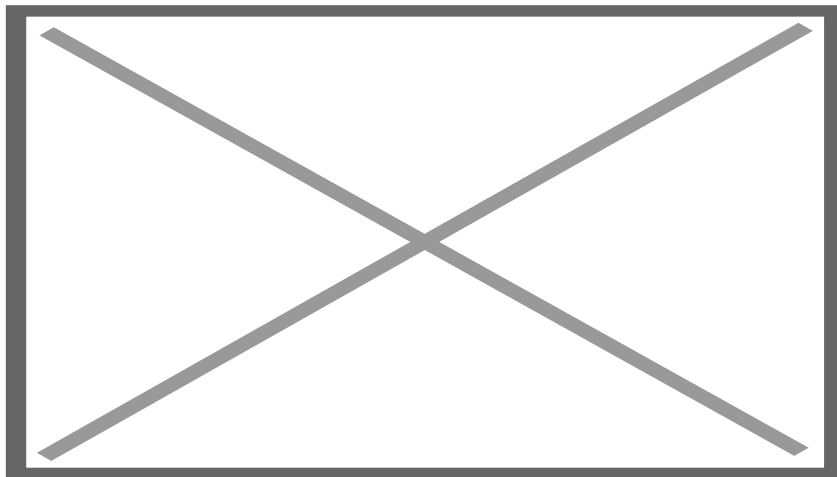
Then, melt the mixture, to obtain a transparent solution. Finally, soak the solution in cold water and finish the preparation.



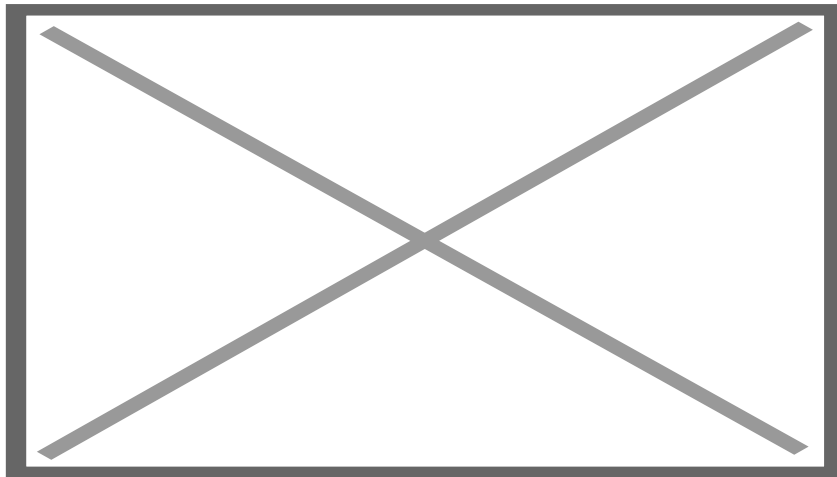
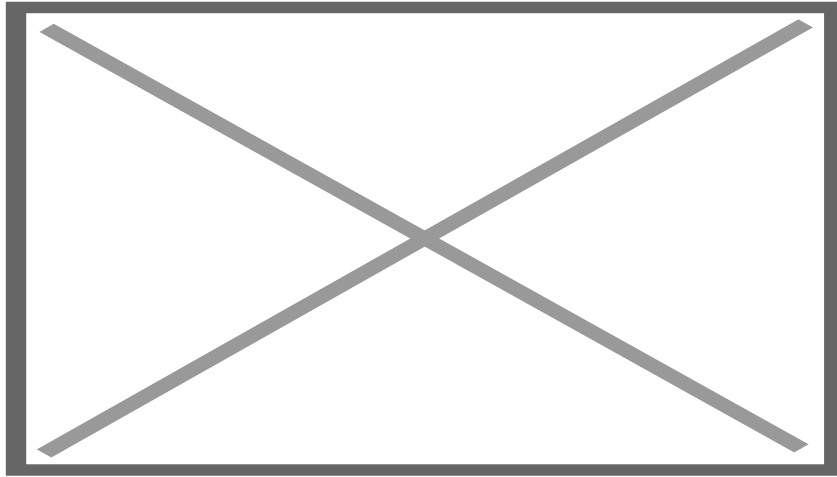
Now, just apply a little dry sodium acetate powder to your hands, you can make the solution freeze in a split second. But is your hand cold like ice? Rest assured, this is an **exothermic reaction**, so you will feel warm and not cold at all. Therefore, this experiment is also called "*hot bandage*". Hot ice is completely non-toxic so you can be assured.

You can observe the experiment more closely through the video below.

In addition, you can create stunning customizations with this experiment.



Pour the sodium acetate solution into dry sodium acetate powder, you will have the game "pour water into ice"



Ice flowers appear when sprinkling sodium acetate on the solution

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