

The equation for reaction between citric acid and sodium bicarbonate is next:



One of the products of this process is CO_2 gas (it will leave the reaction mixture), the rest will be in solution. $\text{C}_6\text{H}_5\text{Na}_3\text{O}_7$ is soluble salt and H_2O is liquid.

The equation for reaction between vinegar (acetic acid) and sodium bicarbonate is similar:



The condition of products is the same.