

Lab 4 – How Much Citric Acid is in Lemon Juice?

Pre-Lab Questions:

First, inevitably, your teacher always gives you a question relating back to the standard:

- 1.1 What is the chemical formula of the acid in lemon juice? What is the name of the chemical containing acid?
- The name of the acid in lemon juice is citric acid. The name of the acid in baking soda is sodium hydrogen carbonate or sodium bicarbonate.
- 1.2 Which equation better describes a chemical reaction, it's called gas evolution. What chemical is responsible for the gas production during the reaction between baking soda and acetic acid?
- Sodium hydrogen carbonate is the baking soda & is responsible for the gas evolution.
- 1.3 In every point during the laboratory experiment, the total baking soda is either evolved there will be the gas evolution. What does this mean?
- When adding baking soda to other acid compounds a gas evolution, this is the evolution that the acid will be the resulting product.
- 1.4 How many moles of citric acid is needed to completely react with 0.75 grams of baking soda?
- In order to find the answer, we need to know the equation for sodium bicarbonate and citric acid react to form hydrogen. $3 \text{NaHCO}_3 + \text{C}_6\text{H}_8\text{O}_7 \rightarrow 3\text{H}_2\text{O} + \text{CO}_2 + \text{C}_6\text{H}_5\text{O}_7 + \text{Na}_3\text{C}_6\text{H}_5\text{O}_7$. From the balanced equation, we know that 3 moles of sodium bicarbonate react with 1 mole of citric acid for the equation. 0.75g of baking soda is 1 mole of sodium bicarbonate and is 0.25g of citric acid.
- 1.5 How many moles of citric acid is needed to completely react with 0.75 grams of baking soda?
- In order to find the answer, we need to know the equation for sodium bicarbonate and citric acid react to form hydrogen. $3 \text{NaHCO}_3 + \text{C}_6\text{H}_8\text{O}_7 \rightarrow 3\text{H}_2\text{O} + \text{CO}_2 + \text{C}_6\text{H}_5\text{O}_7 + \text{Na}_3\text{C}_6\text{H}_5\text{O}_7$. From the balanced equation, we know that 3 moles of sodium bicarbonate react with 1 mole of citric acid for the equation. 0.75g of baking soda is 1 mole of sodium bicarbonate and is 0.25g of citric acid.

Holes Lab Manual Answer Key 50

JS Bruner



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Enjoying the Beat of Phrase: An Psychological Symphony within **Holes Lab Manual Answer Key 50**

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