

N5. DETERMINATION OF CALCIUM CARBONATE IN TOOTHPASTE

PURPOSE: To determine the carbonate concentration of toothpaste

PREWORK

- Write the equations for sodium hydroxide and hydrochloric acid and calcium carbonate with hydrochloric acid.
- Assuming your sample is 100% w/w CaCO_3 , calculate the mass of toothpaste required to give a 25 mL back titration with 0.1 M NaOH, after the sample is dissolved in 50 mL of 0.1M HCl.

PROCEDURE

1. Obtain a toothpaste sample and check its approximate CaCO_3 content with your teacher. If it varies from the 100% used in the Prework, alter the mass of toothpaste to be weighed out by multiplying the calculated mass by (100/actual value)
2. Weigh out accurately about the required amount of toothpaste directly into three 250 mL conical flasks
3. Pipette 50 mL of standardised 0.1M HCl into each flask and gently boil the flasks on a hotplate for 5 minutes.
4. Cool the flasks to room temperature, add 1-2 drops of phenolphthalein and titrate with standardised 0.1M NaOH

CALCULATIONS

Treat each titration separately ie only average the final analysis value

1. Calculate the number of moles of HCl initially pipetted into the flasks
2. Calculate the number of moles of NaOH used in the back titration
3. Determine the moles of HCl remaining after dissolution of the toothpaste
4. Calculate the number of moles of HCl that reacted with CaCO_3
5. Using the reaction ratio, calculate the number of moles of CaCO_3 present in the sample
6. Calculate the mass of CaCO_3 present in the sample
7. Calculate the % w/w CaCO_3 in the sample
8. Calculate the average % and the relative precision of your results

DISCUSSION

- Explain the need for boiling the solution before titration
- Comment on the choice of back titration for this analysis
- Compare the accuracy of back titration to direct titration

QUESTIONS

1. Why is calcium carbonate used in toothpaste?
2. What are the other components of a typical toothpaste?

Acid Base Lab Determination Of CaCO_3 In Toothpaste

Mark Steyvers



Acid Base Lab Determination Of CaCO_3 In Toothpaste:

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Table of Contents Acid Base Lab Determination Of Caco3 In Toothpaste

1. Understanding the eBook Acid Base Lab Determination Of Caco3 In Toothpaste
 - The Rise of Digital Reading Acid Base Lab Determination Of Caco3 In Toothpaste
 - Advantages of eBooks Over Traditional Books
2. Identifying Acid Base Lab Determination Of Caco3 In Toothpaste
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Acid Base Lab Determination Of Caco3 In Toothpaste
 - User-Friendly Interface
4. Exploring eBook Recommendations from Acid Base Lab Determination Of Caco3 In Toothpaste

- Personalized Recommendations
 - Acid Base Lab Determination Of Caco3 In Toothpaste User Reviews and Ratings
 - Acid Base Lab Determination Of Caco3 In Toothpaste and Bestseller Lists
5. Accessing Acid Base Lab Determination Of Caco3 In Toothpaste Free and Paid eBooks
 - Acid Base Lab Determination Of Caco3 In Toothpaste Public Domain eBooks
 - Acid Base Lab Determination Of Caco3 In Toothpaste eBook Subscription Services
 - Acid Base Lab Determination Of Caco3 In Toothpaste Budget-Friendly Options
 6. Navigating Acid Base Lab Determination Of Caco3 In Toothpaste eBook Formats
 - ePub, PDF, MOBI, and More
 - Acid Base Lab Determination Of Caco3 In Toothpaste Compatibility with Devices
 - Acid Base Lab Determination Of Caco3 In Toothpaste Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Acid Base Lab Determination Of Caco3 In Toothpaste
 - Highlighting and Note-Taking Acid Base Lab Determination Of Caco3 In Toothpaste
 - Interactive Elements Acid Base Lab Determination Of Caco3 In Toothpaste
 8. Staying Engaged with Acid Base Lab Determination Of Caco3 In Toothpaste
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Acid Base Lab Determination Of Caco3 In Toothpaste
 9. Balancing eBooks and Physical Books Acid Base Lab Determination Of Caco3 In Toothpaste
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Acid Base Lab Determination Of Caco3 In Toothpaste
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Acid Base Lab Determination Of Caco3 In Toothpaste
 - Setting Reading Goals Acid Base Lab Determination Of Caco3 In Toothpaste
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Acid Base Lab Determination Of Caco3 In Toothpaste

- Fact-Checking eBook Content of Acid Base Lab Determination Of Caco3 In Toothpaste
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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