

Oxidation-Reduction Analysis of Hydrogen Peroxide

Many oxidation-reduction reactions serve as a basis for quantitative analysis. One of the most widely used oxidizing agents is potassium permanganate, KMnO_4 . It is a powerful oxidizing agent that also serves as a self-indicator. One drop in excess of the endpoint volume of a titration turns the solution a pale-pink color.

In this experiment, you will titrate a standardized solution of 0.02 M KMnO_4 into a measured amount of an unknown concentration of hydrogen peroxide, H_2O_2 . Your objective is to determine the percentage and molarity of H_2O_2 in ordinary over-the-counter solutions of hydrogen peroxide.

Pre-Lab Assignment:

Balance the equation for the titration reaction using the half-reaction method. The reaction takes place in acidic conditions. (Record your work in your lab notebook.)



Materials

2 burets
Erlenmeyer flasks
Stir plate
Magnetic stir bar
Balance
Household hydrogen peroxide
0.02M potassium permanganate solution
3.0 M sulfuric acid
0.1M manganese(II) sulfate
Distilled water

PROCEDURE

1. Obtain and wear goggles.
2. Rinse and fill a buret with standardized KMnO_4 solution. Record the molarity of the solution.
3. Determine the mass of a clean, dry Erlenmeyer flask to the correct number of significant figures, and record.
4. From the buret on the front table, record the initial volume (again, to the correct number of significant figures). Add approximately 1.5 mL of ordinary household hydrogen peroxide. Record the final buret volume.
5. Find the mass of the flask with the peroxide and record.
6. Add about 35 mL of distilled water, 5 mL of 3.0 M H_2SO_4 , and 3 or 4 drops of 0.1 M MnSO_4 , which acts as a catalyst.

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Table of Contents Analysis Of Hydrogen Peroxide Answers

1. Understanding the eBook Analysis Of Hydrogen Peroxide Answers
 - The Rise of Digital Reading Analysis Of Hydrogen Peroxide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Analysis Of Hydrogen Peroxide Answers
 - 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 Analysis Of Hydrogen Peroxide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analysis Of Hydrogen Peroxide Answers
 - Personalized Recommendations
 - Analysis Of Hydrogen Peroxide Answers User Reviews and Ratings
 - Analysis Of Hydrogen Peroxide Answers and Bestseller Lists

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