

Title: ANALYSIS OF AN ANTACID USING BACK TITRATION

Aim: To determine the percentage of the active ingredient in a brand of antacid using back titration.

Apparatus: Antacid tablets, burette, distilled water, beaker, conical flask, measuring cylinder, dropper, pipette, scale, clamp stand, filter paper, funnel, stirring rod.

Reagents: Sodium hydroxide, hydrochloric acid, phenolphthalein, methyl orange and potassium hydrogen phthalate (PHP)

Procedure:

I. BACK TITRATION

- (a) An antacid tablet was placed on the analytical balance using filter paper.
- (b) The tablet was transferred to a 250ml conical flask.
- (c) 25ml of 1M HCL was pipetted and added to the conical flask.
- (d) 2-3 drops of methyl orange was added and titrated with sodium hydroxide until the endpoint is achieved.
- (e) Steps (a) to (d) were repeated using a new tablet and another conical flask.

II. STANDARDIZATION OF SODIUM HYDROXIDE SOLUTION

- (a) 4g of KHP was weighed on filter paper.
- (b) The solid was transferred to a conical flask
- (c) 20ml of distilled water was added to the flask
- (d) 2 – 3 drops of phenolphthalein were added to the flask and titrated with sodium hydroxide until the endpoint was achieved.
- (e) Steps (a) – (d) were repeated using a fresh flask.

Results:

I. BACK TITRATION

	Antacid Tablet 1	Antacid Tablet 2
Mass of Tablet/g	2.118	2.026
Initial Volume/cm ³	0	9.0
Final Volume/cm ³	9.0	13.1
Volume of NaOH used/cm ³	9.0	9.1

TABLE SHOWING THE VOLUME OF NaOH USED IN THE BACK TITRATION

II. STANDARDIZATION OF SODIUM HYDROXIDE SOLUTION

	Flask 1	Flask 2
Mass of KHP/g	4.005	4.013
Initial Volume/cm ³	0	20.35
Final Volume/cm ³	20.35	40.60
Volume of NaOH used/cm ³	20.35	20.25

TABLE SHOWING THE VOLUME OF NaOH USED IN THE STANDARDIZATION OF NaOH

Calculations:

Analysis Of Antacids Manual

Jo Allan Beran



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Laboratory Manual for Principles of General Chemistry Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures Laboratory Manual for Principles of General Chemistry J. A. Beran, Mark Lassiter, 2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don't write experiments A student's scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition's experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment's Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section Teachers Manual to Accompany Laboratory for General Chemistry Beran, 1986-05 Illustrated Manual of Nursing Practice, 2002 Completely revised and updated this broad yet comprehensive edition contains twenty nine chapters on nursing issues and clinical practice Topics cover practice and process documentation legal issues health promotion physical assessment I V therapy surgical care and more Disorders are organized by body system and feature an overview of anatomy and physiology assessment diagnostic tests medication treatment and home care with coverage of care for maternal neonatal pediatric geriatric emergency and psychiatric patients Added features include grabbing nursing procedure graphics complementary therapies clinical pathways and cultural information Over 1 000 illustrations charts and graphs enhance the text with a new appendix relating Internet sites for nurses Laboratory Manual for Fundamentals of Chemistry 3/E Jo A. Beran, 1988 **Davis's Comprehensive Manual of Laboratory and Diagnostic Tests with Nursing Implications** Anne M Van Leeuwen, Mickey L Bladh, 2019-03-15 Nursing focused and easy to read this manual delivers all of the information you need to understand how tests work interpret their results and provide quality patient care pre test intra test and post test Tests and procedures are listed in alphabetical order

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Table of Contents Analysis Of Antacids Manual

1. Understanding the eBook Analysis Of Antacids Manual
 - The Rise of Digital Reading Analysis Of Antacids Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Analysis Of Antacids Manual
 - 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 Antacids Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analysis Of Antacids Manual

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

- Fact-Checking eBook Content of Analysis Of Antacids Manual
- 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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