

Antacid Analysis and Titration – Lab Report Assistant

Exercise 1: Back Titration of Antacid Neutralization

Data Table 1. Antacid Neutralization Data

Mass of Crushed Antacid (g)	
Concentration of HCl (M)	1M
Volume HCl (mL)	5 mL
Concentration of NaOH (M)	1M
Initial NaOH Volume (mL)	
Final NaOH Volume (mL)	
Total Volume of NaOH Used (mL)	

Data Table 2. Experimental Results

HCl available for neutralization (g):	0.3646 (g)
Moles of NaOH required to reach stoichiometric point:	0.0039 (moles)
HCl neutralized by antacid:	0.222 (g)
HCl neutralized per gram of antacid:	0.445 (g)

Questions:

- If an antacid tablet weighed 1.6 grams, how many moles of gastric acid (HCl) would it neutralize? Use the results obtained in Data Tables 1 and 2 to explain and quantify your answer.
- If you performed this experiment with a titrant of 0.5M NaOH, would you expect your results in Data Table 2 to change or stay the same? Explain your answer.
- The reaction that occurred when the antacid mixed with the HCl resulted in an additional product (besides a salt and water). Did you see evidence of this product? Describe the experimental evidence you witnessed that supports the formation of the additional product.



Antacid Analysis And Titration Lab Report

Jessica J Manson



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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 *Laboratory Manual* Jo A. Beran,1990 **Improving High School Students' Performance in Chemistry with a Hands-on Approach** Mary L. Fredell,1998 **An Introduction to Chemistry** Michael Mosher,Paul Kelter,2023-03-18 This textbook is written to thoroughly cover the topic of introductory chemistry in detail with specific references to examples of topics in common or everyday life It provides a major overview of topics typically found in first year chemistry courses in the USA The textbook is written in a conversational question based format with a well defined problem solving strategy and presented in a way to encourage readers to think like a chemist and to think outside of the box Numerous examples are presented in every chapter to aid students and provide helpful self learning tools The topics are arranged throughout the textbook in a traditional approach to the subject with the primary audience being undergraduate students and advanced high school students of chemistry Cumulated Index Medicus ,1984 **Management of Gastrointestinal Diseases** Sidney J. Winawer,1992 This is a practical well illustrated book devoted to digestive disease exclusive of liver disease A comprehensive presentation of pathogenesis pathology clinical presentation and diagnosis form the basis for an integrated approach to patient treatment The book is well referenced with

well known contributors making it a useful textbook for gastroenterologists GI surgeons and other primary care physicians
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