

VOLUMETRIC ANALYSIS

AIM

Determine the concentration of aqueous hydrogen peroxide and the percentage purity of oxalate in an unknown oxalate sample by titration with potassium permanganate.

INTRODUCTION

Volumetric analysis is a quantitative analysis process whereby volumes are measured. A volume of reagent known as the standard solution of known concentration is chemically reacted with a solution of unknown concentration in order to determine the concentration of the unknown. The solution that is used as standard is called the titrant which is delivered from a burette and is added until the reaction is completed. The end point of the titration is noted by observing the change of colour of an indicator. In a direct titration, the titrant is added to analyte until the end point is observed whereas in a back titration, a known excess of a standard reagent is added to the analyte. A second standard reagent is then used to titrate the excess of the first reagent.

All the calculations in determining the molarity and average concentration for all equations involve the formulae:

$$M_A V_A = a$$

$$M_B V_B = b$$

The equation for the standardization experiment is given in the ionic form as:



The back titration is explained by the equations:



APPARATUS AND REAGENTS

1.6g of Potassium permanganate

Boiling distilled water

Distilled water

Erlenmeyer flask

Rubber stopper

Sodium oxalate

Sulphuric acid

Source of heat

Burette

Hydrogen peroxide

A Volumetric Analysis Lab Report Answers

Johns Hopkins University



A Volumetric Analysis Lab Report Answers:

Report of the Johns Hopkins University Johns Hopkins University,1876 **Volumetric Analysis** Izaak Maurits Kolthoff,1929 **Report of the President of the Johns Hopkins University, Baltimore, Maryland** Johns Hopkins University,1876 Report of Investigations ,1985 *Annual report of the Johns Hopkins University* ,1879 **A Systematic Handbook of Volumetric Analysis ...** Francis Sutton,1907 Laboratory Record Book of Quantitative Analysis Carl John Engelder,1938 *A Systematic handbook of volumetric analysis, or, The quantitative estimation of chemical substances by measure, applied to liquids, solids, and gases ...* Francis Sutton,1904 Annual Report of the President of the Johns Hopkins University, Baltimore, Maryland Johns Hopkins University,1874 **Merck's Report** Theodore Weicker,1910 The Merck Report ,1899 **Government Reports Announcements & Index** ,1976 Annual Report of the President Johns Hopkins University,1876 *U.S. Government Research & Development Reports* ,1967
American Engineer and Railroad Journal ,1905 **Chemical Abstracts** ,1913 **Hygienic Laboratory bulletin. no. 88-94, 1913-14** ,1913 **Government Reports Announcements & Index** ,1978 **Bibliography of Scientific and Industrial Reports** ,1968 **Government Reports Announcements** ,1974

The book delves into A Volumetric Analysis Lab Report Answers. A Volumetric Analysis Lab Report Answers is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into A Volumetric Analysis Lab Report Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to A Volumetric Analysis Lab Report Answers
 - Chapter 2: Essential Elements of A Volumetric Analysis Lab Report Answers
 - Chapter 3: A Volumetric Analysis Lab Report Answers in Everyday Life
 - Chapter 4: A Volumetric Analysis Lab Report Answers in Specific Contexts
 - Chapter 5: Conclusion
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 5. In chapter 4, the author will scrutinize the relevance of A Volumetric Analysis Lab Report Answers in specific contexts. The fourth chapter will explore how A Volumetric Analysis Lab Report Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about A Volumetric Analysis Lab Report Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of A Volumetric Analysis Lab Report Answers.

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