

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

J Elliott



A Volumetric Analysis Lab Report Answers:

Report of the Johns Hopkins University Johns Hopkins University,1876 **Report of the President of the Johns Hopkins University, Baltimore, Maryland** Johns Hopkins University,1876 Annual report of the Johns Hopkins University ,1879 Report of Investigations ,1985 *A Systematic Handbook of Volumetric Analysis ...* Francis Sutton,1907 **Volumetric Analysis** Izaak Maurits Kolthoff,1929 **Government Reports Announcements & Index** ,1976 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* Johns Hopkins University,1876 **The Merck Report** ,1899

Annual Report of the President of the Johns Hopkins University, Baltimore, Maryland Johns Hopkins University,1874 *U.S. Government Research & Development Reports* ,1967 *American Engineer and Railroad Journal* ,1905 Merck's Report Theodore Weicker,1910 *Chemical Abstracts* ,1913 Government Reports Announcements ,1974 *Government Reports Announcements & Index* ,1978 Bibliography of Scientific and Industrial Reports ,1968

Hygienic Laboratory bulletin. no. 88-94, 1913-14 ,1913

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