

EXPERIMENT 7: REDOX TITRATION

PURPOSE

The purpose of this experiment is to standardize the potassium permanganate solution by titration method.

INTRODUCTION

Oxidation-reduction processes electrons transfer one species to another. Potassium permanganate has been widely used as an oxidizing agent and requires no indicator unless very dilute solutions are used. The oxidizing action of KMnO_4 in the acidic medium can be represented by the following equation:



Solution containing MnO_4^- ions are purple in colour and the solution containing Mn^{2+} ions colourless and hence permanganate solution is decolourised when added to a solution of a reducing agent.

CHEMICALS AND APPARATUS

Potassium permanganate solution	Burette
Dried sodium oxalate	Conical flask
1M sulphuric acid	Hot plate
	Pipette
	Thermometer

PROCEDURE

1. The burette was rinsed and filled with potassium permanganate solution. the air bubble was removed from the nozzle of the burette by draining some of the solutions..
2. 0.3 g to 0.4 g of dried sodium oxalate was weighed accurately. The mass of sodium oxalate was noted and transferred to conical flask.
3. 40 ml of 1.0 M sulphuric acid was added to the conical flask and carefully heated to 60°C .

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OCR(A) AS/A2 Chemistry Student Unit Guide: Units F323 and F326 Practical Skills in Chemistry John Older, 2010-05-28

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Water Quality Monitoring and Management Daoliang Li, Shuangyin Liu, 2018-10-11 *Water Quality Monitoring and Management Basis Technology and Case Studies* presents recent innovations in operations management for water quality monitoring It highlights the cost of using and choosing smart sensors with advanced engineering approaches that have been applied in water quality monitoring management including area coverage planning and sequential scheduling In parallel the book covers newly introduced technologies like bulk data handling techniques IoT of agriculture and compliance with environmental considerations Presented from a system engineering perspective the book includes aspects on advanced optimization system and platform Wireless Sensor Network selection of river water quality groundwater quality detection and more It will be an ideal resource for students researchers and those working daily in agriculture who must maintain acceptable water quality Discusses field operations research and application in water science Includes detection methods and case analysis for water quality management Encompasses rivers lakes seas and groundwater Covers water for agriculture aquaculture drinking and industrial uses

Geothermal Systems and Energy Resources Alper Baba, Jochen Bundschuh, D. Chandrasekharam, 2014-03-07 In the region comprising Turkey and Greece people have been using water from geothermal sources for bathing and washing of clothes since ancient times This region falls within the Alpine Himalayan orogenic belt and hence is a locus of active volcanism and tectonism and experiences frequent seismic events This volcanic and tectonic activity has given rise to over 1500 geothermal springs Its importance was recognized decades ago and the geothermal water is now being utilized for district heating industrial processing domestic water supply balneology and electric power generation The geothermal potential in this region is large In Turkey alone it is estimated to be more than 31500 MWt while the proven potential is 4078 MWt At present 2084 MWt is being utilized for direct applications in Turkey and 135 MWt in Greece In Turkey electricity is produced for 166 MW installed

capacity whereas in Greece geothermal energy is presently not used for electricity production despite its potential This book discusses the geochemical evolution of the thermal waters and thermal gases in terms of the current volcano tectonic setting and associated geological framework that makes the region very important to the geothermal scientific community The book explains in a didactic way the possible applications depending on local conditions and scales and it presents new and stimulating ideas for future developments of this renewable energy source Additionally the book discusses the role s of possible physicochemical processes in deep hydrothermal systems the volatile provenance and relative contributions of mantle and crustal components to total volatile inventories It provides the reader with a thorough understanding of the geothermal systems of this region and identifies the most suitable solutions for specific tasks and needs elsewhere in the world It is the first time that abundant information and data from this region obtained from intensive research during the last few decades is unveiled to the international geothermal community Thus an international readership in the professional and academic sectors as well as in key institutions that deal with geothermal energy will benefit from the knowledge from geothermal research and experiences obtained from the Aegean Region

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Cereal Grains Colin Wrigley,Ian Batey,Diane Miskelly,2016-12-27 Cereal Grains Assessing and Managing Quality Second Edition provides a timely update to this key reference work Thoroughly revised from the first edition this volume examines the latest research and advances in the field New chapters have been added on alternative grains including ancient grains and pseudocereals biosecurity and industrial processing of grains amongst others Quality and food safety are important throughout the value addition chain from breeding production harvest storage transport processing and marketing At all stages analysis is needed so that quality management can proceed intelligently These considerations are examined for each of the major cereal species including wheat common and durum rye and triticale barley and oats rice maize corn pseudocereal species sorghum and the millets Divided into five sections the book analyses these for the range of cereal species before a final section summarizes key findings Documents the latest research in cereal grains from their nutraceutical and antioxidant traits to novel detection methods Provides a complete and thorough

update to the first edition analyzing the range of major cereal species Presents detailed advice on the management of cereal quality at each stage of production and processing Canadian Journal of Earth Sciences ,2013 Nuclear Science Abstracts ,1957 Advances in Analytical Techniques and Methodology for Chemical Speciation Study Ottawa Giuffrè,Carlos Rey-Castro,Anna Napoli,2021-07-05 **Indian Science Abstracts** , *Journal of the Textile Institute* Textile Institute. (Manchester, Lancashire),1964 **Global Ecology** Sven Erik Jørgensen,2010-04-16 Global Ecology focuses on the perception of the biosphere or the ecosphere as a unified cooperative system with numerous synergistic effects which describe the distinctive properties of this sphere This book is subdivided into five parts dealing with diverse aspects in global ecology The first part of the book provides comprehensive description of the biosphere including its unique characteristics and evolution This part also describes various spheres in the biosphere such as the hydrosphere noosphere and pedosphere as well as their composition The next part focuses on the global cycles including calcium carbon iron microbial nitrogen oxygen phosphorus sulfur and water cycles In addition global balances and flows are explained Presented in the third part are the results of the global cycles and flows as well as the patterns of the climatic factors and marine currents There is also a part discussing the climate interactions climatic changes and its effect on the living organisms The book concludes by covering the application of stoichiometry in the biosphere and in ecosystems The book offers a comprehensive view of global ecology and ecological stoichiometry which will aid in the processes of global ecology Provides an overview of the theory and application of global ecology International focus and range of ecosystems makes Global Ecology an indispensable resource to scientists Based on the bestselling Encyclopedia of Ecology Full color figures and tables support the text and aid in understanding **Science Citation Index** ,1992 Vols for 1964 have guides and journal lists

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