

Determination of Vitamin C Concentration by Titration

(Redox Titration Using Iodate Solution)

Introduction

This method determines the vitamin C concentration in a solution by a redox titration with potassium iodate. In the presence of potassium iodide, Vitamin C, more properly called ascorbic acid, is an essential antioxidant needed by the human body (see additional notes).

When iodate ions (IO_3^-) are added to an acidic solution containing iodide ions (I^-), an oxidation-reduction reaction occurs:

- the iodate ions are reduced to form iodine



- while the iodide ions are oxidised to form iodine.



Combining these half-equations demonstrates the reaction between iodate and iodide



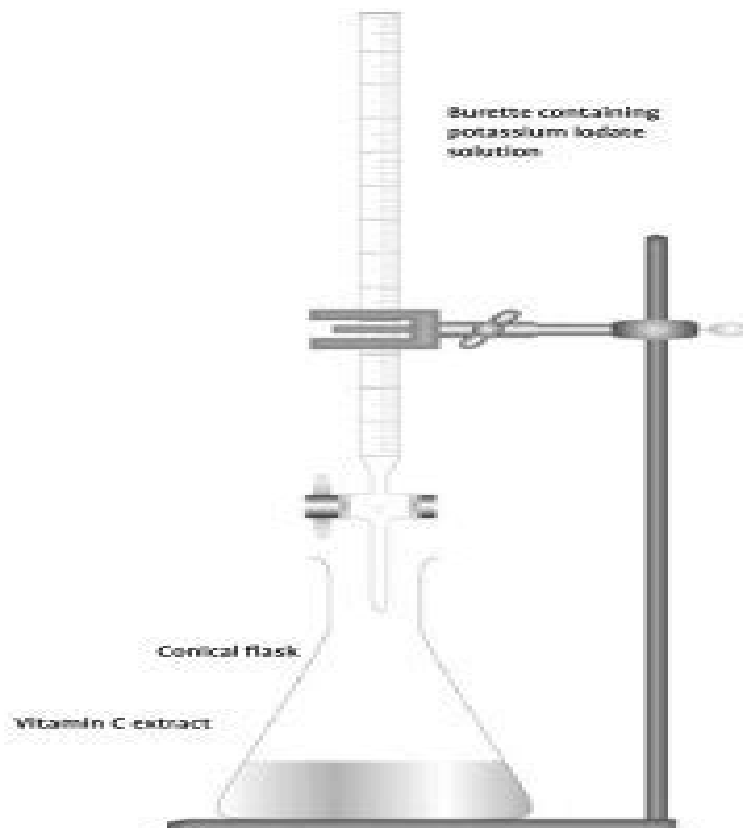
It is the iodine formed by this reaction that oxidises the ascorbic acid to dehydroascorbic acid as the iodine is reduced to iodide ions.



Due to this reaction the iodine formed is immediately reduced to iodide as long as there is any ascorbic acid present. Once all the ascorbic acid has been oxidised, the excess iodine is free to react with the starch indicator, forming the blue-black starch-iodine complex. This is the endpoint of the titration.

The method is suitable for use with Vitamin C tablets, fresh or packaged fruit juices and solid fruits and vegetables.

NB: This method is really the same as titrating ascorbic acid directly with iodine solution (see Vitamin C Method using Iodine). However, this method is more reliable as the potassium iodate solution is more stable than iodine as a primary standard.



Determination Of Vitamin C Concentration By Titration

**Hao Jiang, Shaojin Wang, Baoguo
Xu, Yuanyuan Shan**



Determination Of Vitamin C Concentration By Titration:

Food Analysis Laboratory Manual S. Suzanne Nielsen, 2010-03-20 This second edition laboratory manual was written to accompany Food Analysis Fourth Edition ISBN 978 1 4419 1477 4 by the same author The 21 laboratory exercises in the manual cover 20 of the 32 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic Most of the laboratory exercises include the following introduction reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis *Nutrition Labeling Handbook* Ralph Shapiro, 1995-08-30 This handbook examines the Nutritional Labeling and Education Act NLEA passed by Congress in 1990 It discusses the history of the NLEA and its impact on various segments of the food industry making complex and detailed regulations easily understandable throughout Government industry and consumer perspectives on labelling regulations are provided along with practical guidelines for compliance and packaging Handbook of Food Analysis: Physical characterization and nutrient analysis Leo M. L. Nollet, 2004 This two volume handbook supplies food chemists with essential information on the physical and chemical properties of nutrients descriptions of analytical techniques and an assessment of their procedural reliability The new edition includes two new chapters that spotlight the characterization of water activity and the analysis of inorganic nutrients and provides authoritative rundowns of analytical techniques for the sensory evaluation of food amino acids and fatty acids neutral lipids and phospholipids and more The leading reference work on the analysis of food this edition covers new topics and techniques and reflects the very latest data and methodological advances in all chapters **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 A Textbook of Pharmaceutical Analysis Dr. Yedlapalli. Govindarao , Mrs. Sakshy Sharma , Dr. Padmanabh B. Deshpande , Mr. Manoj Gangadhar Shinde, Mrs. G. Jahnavi, 2025-05-10 It brings us immense joy to introduce the book Pharmaceutical Analysis This book has been carefully designed to align with the Bachelor of Pharmacy curriculum set by the Pharmacy Council of India We hope it proves valuable to both students and teachers alike We welcome feedback and suggestions on all aspects of the subject and take full responsibility for any inadvertent errors or omissions If any discrepancies are found we would greatly appreciate readers

bringing them to our attention **Food Analysis** Suzanne Nielsen,2003-04-30 This book provides information on the techniques needed to analyze foods in laboratory experiments All topics covered include information on the basic principles procedures advantages limitations and applications This book is ideal for undergraduate courses in food analysis and is also an invaluable reference to professionals in the food industry General information is provided on regulations standards labeling sampling and data handling as background for chapters on specific methods to determine the chemical composition and characteristics of foods Large expanded sections on spectroscopy and chromatography are also included Other methods and instrumentation such as thermal analysis selective electrodes enzymes and immunoassays are covered from the perspective of their use in the chemical analysis of foods A helpful Instructor s Manual is available to adopting professors

A Textbook of Pharmaceutical Analysis Mr. A. L. Ware , Mrs. Seema Chahar Beniwal , Dr. N. Kannappan , Dr. K. K. Senthilkumar Dr. D. Samson Israel,2024-07-20 Introducing the book Pharmaceutical Analysis is something that fills me with an incredible amount of joy The content of this book has been meticulously crafted to adhere to the curriculum for Bachelor of Pharmacy students that has been outlined by the Pharmacy Council of India An effort has been made to investigate the topic using terminology that is as straightforward as possible in order to make it more simply digestible for pupils The book has a number of illustrations such as flowcharts and diagrams that make it simple for students to comprehend complex ideas It is the author s honest desire that both students and academicians would take something helpful away from reading this book

Photoacoustic IR Spectroscopy Kirk H. Michaelian,2010-12-01 This invaluable and up to date source on instruments and applications covers everything needed to employ a technique for investigating various gases and materials including biomaterials It includes the latest developments in light sources signal recovery and numerical methods There is no other single publication that reviews the entire subject of photoacoustic infrared spectroscopy in such detail Physicists chemists and spectroscopists in both academic and industrial laboratories polymer and organic chemists analysts in industry forensic and government laboratories and materials scientists will find this book to be a vital resource

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A text book of PHARMACEUTICAL ANALYSIS-I Dr. Alok kumar Dash,2025-06-03 A Pharmaceutical Analysis 1 Theory Practical textbook for B Pharm first semester focuses on the fundamental principles and techniques used to analyze pharmaceutical drugs ensuring their purity quality and safety The book typically covers topics like titration methods qualitative and quantitative analysis and the basics of analytical instrumentation as mandated by the Pharmacy Council of India PCI regulations It aims to provide students with a strong foundation in analytical chemistry relevant to the

pharmaceutical industry *Chemistry Education in the ICT Age* Minu Gupta Bhowon, Sabina Jhaumeer-Laulloo, Henri Li Kam Wah, Ponnadurai Ramasami, 2009-07-21 The 20 International Conference on Chemical Education 20 ICCE which had rd th Chemistry in the ICT Age as the theme was held from 3 to 8 August 2008 at Le Meridien Hotel Pointe aux Piments in Mauritius With more than 200 participants from 40 countries the conference featured 140 oral and 50 poster presentations th Participants of the 20 ICCE were invited to submit full papers and the latter were subjected to peer review The selected accepted papers are collected in this book of proceedings This book of proceedings encloses 39 presentations covering topics ranging from fundamental to applied chemistry such as Arts and Chemistry Education Biochemistry and Biotechnology Chemical Education for Development Chemistry at Secondary Level Chemistry at Tertiary Level Chemistry Teacher Education Chemistry and Society Chemistry Olympiad Context Oriented Chemistry ICT and Chemistry Education Green Chemistry Micro Scale Chemistry Modern Technologies in Chemistry Education Network for Chemistry and Chemical Engineering Education Public Understanding of Chemistry Research in Chemistry Education and Science Education at Elementary Level We would like to thank those who submitted the full papers and the reviewers for their timely help in assessing the papers for publication th We would also like to pay a special tribute to all the sponsors of the 20 ICCE and in particular the Tertiary Education Commission <http://tec.intnet.mu> and the Organisation for the Prohibition of Chemical Weapons <http://www.opcw.org> for kindly agreeing to fund the publication of these proceedings **Die Ascorbinsäure in der Pflanzenzelle. Vitamin C in the Animal Cell** Helmut Metzner, Geoffrey H. Bourne, 2013-03-08 *Illustrated Guide to Home Forensic Science Experiments* Robert Thompson, Barbara Fritchman Thompson, 2012-08-14 Learn how to analyze soil hair and fibers match glass and plastic specimens develop latent fingerprints and reveal blood traces conduct drug and toxicology tests analyze gunshot and explosives residues detect forgeries and fakes analyze toolmark impressions and camera images match pollen and diatom samples extract isolate and visualize DNA samples P 4 of cover **The Analytical Chemistry Laboratory Companion** Michael D. Holloway, 2025-07-15 The Analytical Chemistry Laboratory Companion is essential for both students and professionals as it provides quick clear explanations on critical topics in analytical chemistry equipping you with the statistical tools necessary to ensure accurate and reliable data interpretation The Analytical Chemistry Laboratory Companion serves as a reference guide for students and professionals alike who need quick explanations on specific topics laboratory operations the structure of designing experiments and the use of statistics to gain increased accuracy precision repeatability and reproducibility of data This volume will also provide in depth and advanced studies and build the necessary background knowledge for success in the field This companion provides a concise examination of the various analytical tools used for chemistry and defines basic analytical instrument principles techniques and applications in addition to exploring statistical tools useful in data interpretation test result reporting and common root causes for faulty data with suggested remedies The introduction provides a concise guide on foundational topics such as

developing standard operating procedures laboratory safety instrumental analytical methods and common statistical tools useful for data interpretation This companion covers both wet chemical and instrumental analysis including their principles applications and pitfalls The Analytical Chemistry Laboratory Companion is a must have comprehensive guide in the field of analytical chemistry

Illustrated Guide to Home Chemistry Experiments Robert Bruce Thompson, 2012-02-17 For students DIY hobbyists and science buffs who can no longer get real chemistry sets this one of a kind guide explains how to set up and use a home chemistry lab with step by step instructions for conducting experiments in basic chemistry not just to make pretty colors and stinky smells but to learn how to do real lab work Purify alcohol by distillation Produce hydrogen and oxygen gas by electrolysis Smelt metallic copper from copper ore you make yourself Analyze the makeup of seawater bone and other common substances Synthesize oil of wintergreen from aspirin and rayon fiber from paper Perform forensics tests for fingerprints blood drugs and poisons and much more From the 1930s through the 1970s chemistry sets were among the most popular Christmas gifts selling in the millions But two decades ago real chemistry sets began to disappear as manufacturers and retailers became concerned about liability

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Experiment Station Record United States. Office of Experiment Stations, 1948

Experiment Station Record U.S. Office of Experiment Stations, United States. Agricultural Research Service, United States. Office of Experiment Stations, 1944

Vitamin Analysis for the Health and Food Sciences Ronald R. Eitenmiller, W. O. Landen Jr., Lin Ye, 2016-04-19 Employing a uniform easy to use format Vitamin Analysis for the Health and Food Sciences Second Edition provides the most current information on the methods of vitamin analysis applicable to foods supplements and pharmaceuticals Highlighting the rapid advancement of vitamin assay methodology this edition emphasizes the use of

improved *The impact of food processing on physicochemical and nutritional properties of foods* Hao Jiang, Shaojin Wang,
Baoguo Xu, Yuanyuan Shan, 2023-06-01 Notes on Graduate Studies and Research in Home Economics and Home
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