

Colorimetric Titration Experiment - Determine the amount of vitamin C in a medium peach

A suitable method for the determination of vitamin C (ascorbic acid, $C_6H_8O_6$) is a titration with potassium iodate (KIO_3). In this reaction, potassium iodate is used as a titrant and when added to an ascorbic acid solution that contains strong acid and potassium iodide (KI), the potassium iodate reacts with potassium iodide, liberating molecular iodine (I_2) as shown in the reaction below:



During the titration, as long as the solution contains ascorbic acid, the I_2 produced in equation 1 is used up in a rapid reaction with ascorbic acid (equation 2), during which dehydroascorbic acid ($C_6H_6O_6$) and iodide ion (I^-) are formed:



Once all the ascorbic acid has been consumed, any excess iodine (I_2) will remain in solution. This excess iodine reacts with starch, to form an intensely blue colored complex, indicating that the endpoint is reached.

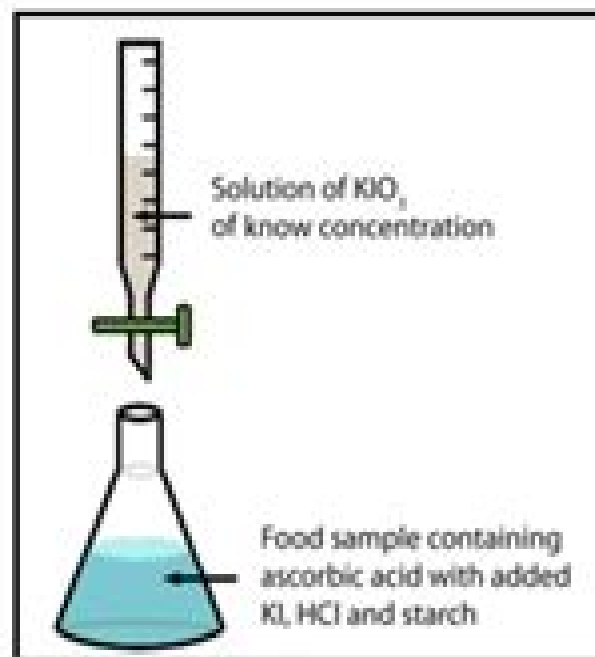
The experimental setup is shown schematically to the right.

The virtual lab stockroom contains the following solutions:

Solid potassium iodate - (KIO_3). You will need to create a stock solution with this in order to perform your titration. (Note: The molar mass of potassium iodate is 214.001 g/mol.)

Potassium iodide solution - This is provided as a concentrated solution of KI in water. Since you are required to use an excess KI, the amount does not need to be measured precisely. Use 5 mL of KI solution for each titration.

2M HCl - The addition of acid is necessary to provide the acidic conditions required in the iodometric titration (see Equation 1). Use 4mL of the HCl solution in each titration.



Determination Of Vitamin C Concentration By Titration

**Minu Gupta Bhowon, Sabina Jhaumeer-
Laulloo, Henri Li Kam Wah, Ponnadurai
Ramasami**

Determination Of Vitamin C Concentration By Titration:

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

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

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

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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

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 Jacaranda Chemistry 2 VCE Units 3 and 4, 3e learnON and Print Robert Stokes,Angela Stubbs,Neale Taylor,Jason Bourke,Ben Williams,Maida Derbogosian,2023-12-26 Developed by expert Victorian teachers for VCE students The NEW Jacaranda Chemistry VCE series continues to deliver curriculum aligned material that caters to students of all abilities Our expert author team of practising teachers and assessors ensures 100% coverage of the new VCE Chemistry Study Design 2023 2027 **Determination of Vitamin C (Ascorbic Acid) Content in Vitamin C Supplements by Redox Titration** Piradeepa Jeyaraju,2007 Sterilization of Food in Retort Pouches A.G. Abdul Ghani Al-Baali,Mohammed M. Farid,2007-11-12 Sterilization of canned food is a well known technology that has been in practice for many decades Food sterilization has been well studied in a large number of textbooks This book is not about the science of sterilization or food safety but rather about the important interaction between uid mechanics heat transfer and microbial inactivation Such interaction is complex and if ignored would lead to incorrect information not only on food sterility but also on food quality The book is written by engineers for both food engineers and scientists However it may also be of interest to those working in computational uid dynamics CFD It presents an elementary treatment of the principles of heat transfer during thermal sterilization and it contains suf cient material presented at a high level of mathematics A background in the solution of ordinary and partial differential equations is helpful for proper understanding of the main chapters of this book However we have avoided going into a detailed numerical analysis of the nite volume method FVM of solutions used to solve the sets of equations Some familiarity with uid dynamics and heat transfer will also be helpful but not essential Inthisbook conductionandconvectiveheattransferistreatedsuchthatthereaderisofferedthe insight that is gained from analytical solutions as well as the important tools of numerical analysis which must be used in practice Analysis of free convection is used to present a physical picture of the convection process **Chemistry Education in the ICT Age** Minu Gupta Bhowon,Sabina Jhaumeer-Laulloo,Henri Li Kam Wah,Ponnadurai Ramasami,2009-07-21 th th 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 M ridien 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

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 Ralph Robinson,1941 Advances in Flow Analysis Marek Trojanowicz,2008-09-08 This first book to cover different
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 advances in flow method analysis with an appendix listing additional databases instrumentation and methods on the Internet
 A definite must have for every chemist working in this field Water-soluble Vitamin Assays in Human Nutrition G.F.M.
 Ball,2012-12-06 this is a valuable addition to the food analyst s library It brings together a well balanced account of the
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