

# Determination of Vitamin C Concentration by Titration

(Redox Titration Using Iodine Solution)

## Introduction

This method determines the vitamin C concentration in a solution by a redox titration using iodine. Vitamin C, more properly called ascorbic acid, is an essential antioxidant needed by the human body (see additional notes). As the iodine is added during the titration, the ascorbic acid is oxidised to dehydroascorbic acid, while 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.

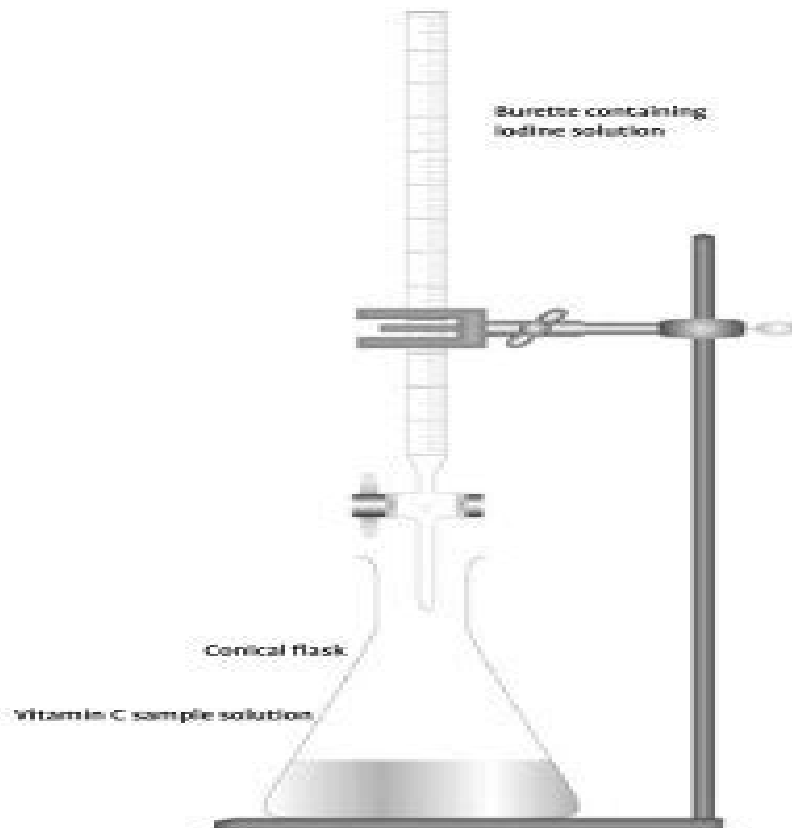
NB: This method is more straight forward than the alternative method using potassium iodate, but as the potassium iodate solution is more stable than the iodine as a primary standard, the alternative method is more reliable.

## Equipment Needed

burette and stand  
100 mL or 200 mL volumetric flask  
20 mL pipette  
10 mL and 100 mL measuring cylinders  
250 mL conical flasks

## Solutions Needed

**Iodine solution:** ( $0.005 \text{ mol L}^{-1}$ ). Weigh 2 g of potassium iodide into a 100 mL beaker. Weigh 1.3 g of iodine and add it into the same beaker. Add a few mL of distilled water and swirl for a few minutes until iodine is dissolved. Transfer iodine solution to a 1 L volumetric flask, making sure to rinse all traces of solution into the volumetric flask using distilled water. Make the solution up to the 1 L mark with distilled water.



# Determination Of Vitamin C Concentration By Titration

**Piradeepa Jeyaraju**



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**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

**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

**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** 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

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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 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 em The Illustrated Guide to Home Chemistry Experiments steps up to the plate with lessons on how to equip your home chemistry lab master laboratory skills and work safely in your lab The bulk of this book consists of 17 hands on chapters that include multiple laboratory sessions on the following topics Separating Mixtures Solubility and Solutions Colligative Properties of Solutions Introduction to Chemical Reactions Stoichiometry Reduction Oxidation Redox Reactions Acid Base Chemistry Chemical Kinetics Chemical Equilibrium and Le Chatelier s Principle Gas Chemistry Thermochemistry and Calorimetry Electrochemistry Photochemistry Colloids and Suspensions Qualitative Analysis Quantitative Analysis Synthesis of Useful Compounds Forensic Chemistry With plenty of full color illustrations and photos Illustrated Guide to Home Chemistry Experiments offers introductory level sessions suitable for a middle school or first year high school chemistry laboratory course and more advanced sessions suitable for students who intend to take the College Board Advanced Placement AP Chemistry exam A student who completes all of the laboratories in this book will have done the equivalent of two full years of high school chemistry lab work or a first year college general chemistry laboratory course This hands on introduction to real chemistry using real equipment real chemicals and real quantitative experiments is ideal for the many thousands of young people and adults who want to experience the magic of chemistry

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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 sufficient 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 finite 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 In this book conduction and convective heat transfer is treated such that the reader is offered the 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

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