

# Determining the Phosphoric Acid Content in Soft Drinks

NAME \_\_\_\_\_

DATE \_\_\_\_\_

SECTION \_\_\_\_\_

Brand name of soft drink analysed

Coca-Cola

Concentration of undiluted standard phosphate solution, M

$3.00 \times 10^{-3}$

Solution Number	%T	Absorbance	Phosphate Concentration, mol/L
1	67.1	0.174	$6.00 \times 10^{-5}$ mol/L
2	58.5	0.233	
3	48.1	0.318	
4	40.5	0.393	
Soft drink (dilute)	54.0	0.268	*

\* See equation 5 on p. 224. Table 1 on page 221 gives the volume of phosphate for solutions 1-4.

← ~~Concentration~~ From Beer's law plot. See Figure 2.  
Concentration Calculations

- Show your setup for the calculation of the concentration of the phosphate ion in Solution 1.
- Show your calculation for the concentration of phosphoric acid in the original (undiluted) soft drink. Hint: Use the formula  $M_1V_1 = M_2V_2$  to solve for  $M_1$ .

Concentration of phosphoric acid in original (undiluted) soft drink, M \_\_\_\_\_

For this calculation,  $M_2$  is the concentration in the dilute soft drink. You are solving for  $M_1$ , the concentration before the soft drink was diluted.

# Determination Of The Phosphoric Acid Content In Soft Drinks

**Philip R. Ashurst**



## **Determination Of The Phosphoric Acid Content In Soft Drinks:**

Phosphates in Food Ricardo A. Molins, 2018-05-04 Phosphates in Food provides the first comprehensive analysis of phosphates used in food processing in almost 20 years The book describes the nomenclature structure chemistry and analytical procedures for phosphates in foods Interactions between added and some natural phosphates and food components particularly proteins carbohydrates lipids and metal ions are examined in relation to using phosphates in food processing for such purposes as increasing the water holding capacity of proteins improving emulsification preventing gelation and delaying lipid oxidation The book also discusses the use of phosphates in specific food groups such as milk and dairy products meats poultry and fish fruits and vegetables bakery products and cereals and miscellaneous food products including beverages fats and oils sugar and confectionery products eggs and derivatives and specialty products An extensive section discussing the importance of phosphates as microbial agents is presented and is followed by a final section that examines the nutritional and health implications of elevated phosphate intake The book contains 1 135 references 43 tables and 34 figures making it an ideal reference resource for researchers in food sciences microbiology and nutrition food and chemical industries and regulatory agencies within local state and federal governments **30th Scientific-Experts**

**Conference of Agriculture and Food Industry** Muhamed Brka, Enisa Omanović-Miklićanin, Lutvija Karić, Vedad Falan, Almir Toroman, 2020-02-03 This book gathers the proceedings of the 30th Scientific Experts Conference of Agriculture and Food Industry held on September 26 27 2019 in Sarajevo Bosnia and Herzegovina It reports on the application of innovative technologies in food sciences and agriculture and covers research in plant and animal production agricultural economics and food production Further the book discusses key social and environmental issues and proposes answers to current challenges The conference was jointly organized by the Faculty of Agriculture and Food Sciences of the University of Sarajevo Bosnia and Herzegovina the Faculty of Agriculture of Ege University Turkey the Bosnia and Herzegovina Medical and Biological Engineering Society and the Faculty of Agriculture of the University of Belgrade Serbia The proceedings offer a timely snapshot of cutting edge multidisciplinary research and developments in modern agriculture As such they address the needs of researchers and professionals agricultural companies food producers and regulatory and food safety agencies

**Chemistry and Technology of Soft Drinks and Fruit Juices** Philip R. Ashurst, 2008-04-15 Soft drinks and fruit juices are produced in almost every country in the world and their availability is remarkable From the largest cities to some of the remotest villages soft drinks are available in a variety of flavours and packaging The market for these products continues to show a remarkable potential for growth The variety of products and packaging types continues to expand and among the more significant developments in recent years has been the increase in diet drinks of very high quality many of which are based on spring or natural mineral water This book provides an overview of the chemistry and technology of soft drinks and fruit juices The original edition has been completely revised and extended with new chapters on Trends in Beverage Markets

Fruit and Juice Processing Carbohydrate and Intense Sweeteners Non Carbonated Beverages Carbonated Beverages and Functional Drinks containing Herbal Extracts It is directed at graduates in food science chemistry or microbiology entering production quality control new product development or marketing in the beverage industry or in companies supplying ingredients or packaging materials to the beverage industry

**Flow Injection Analysis of Food Additives** Claudia Ruiz-Capillas, Leo M.L. Nollet, 2015-12-01 Flow Injection Analysis of Food Additives gives you the tools you need to analyze food and beverage additives using FIA This sets it apart from other books that simply focus on the theoretical basis and principles of FIA or on the design of equipment instrumentation manifold and setting mechanism Truly unprecedented in its scope this book rep

**Phosphates As Food Ingredients** R.H. Ellinger, 2018-01-18 There is an enormous quantity of literature including numerous patents on the functions and applications of phosphates in foods No attempt has been made to review every publication as such an exhaustive review would require a sizeable book Anyone interested in further details on any topic covered in this treatise should consult the references listed at the end of the chapter The bibliographies provided in the references for each topic should provide more thorough coverage It is hoped that the references cited are those with the most useful information on the phosphate applications and their effects on foods

**The Encyclopedia of Nutrition and Good Health** Robert A. Ronzio, 2003 Presents articles on a variety of topics related to eating and nutrition

**Regulatory Impact Analysis of Emission Standards for Elemental Phosphorus Plants**, 1984

**Handbook of Food Safety Engineering** Da-Wen Sun, 2011-11-03 This book presents a comprehensive and substantial overview of the emerging field of food safety engineering bringing together in one volume the four essential components of food safety the fundamentals of microbial growth food safety detection techniques microbial inactivation techniques food safety management systems Written by a team of highly active international experts with both academic and professional credentials the book is divided into five parts Part I details the principles of food safety including microbial growth and modelling Part II addresses novel and rapid food safety detection methods Parts III and IV look at various traditional and novel thermal and non thermal processing techniques for microbial inactivation Part V concludes the book with an overview of the major international food safety management systems such as GMP SSOP HACCP and ISO22000

**Proceedings of the Annual Convention** Association of Official Analytical Chemists, 1911

**Food Additive Toxicology** Joseph A. Maga, Anthony Y. Tu, 2024-11-01 Provides both historical information and the latest toxicological data on various classes of food additives examining the production application and safety of numerous compounds used to enhance and preserve the quality of foods

**Calcium** Victor R. Preedy, 2016 Calcium s importance in health and disease is clear when listing its multiple roles in the body this edited volume will pool knowledge across scientific disciplines in a way that increases its applicability to a wide range of audiences and fills the gap identified in providing comprehensive synopses of food substances

**Formulation and Production Carbonated Soft Drinks** A.J. Mitchell, 1990 This is an integrated appraisal of the production of carbonated soft drinks It provides a basis

for experienced technicians who wish to specialize further in a particular field It is intended for personnel involved with distribution sales marketing and finance within the soft drink industry      **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      **Fantastic Voyage** Ray Kurzweil, Terry Grossman, 2005-09-27 A leading scientist and an expert on human longevity explain how new discoveries in the fields of genomics biotechnology and nanotechnology could radically extend the human life expectancy and enhance physical and mental abilities and introduce a cutting edge program designed to enhance the immune system and slow the aging process on a cellular level Reprint

Chemicals in Food Products, Hearings Before..., 81-2 Created Pursuant to H. Res. 323, September 14-December 15, 1950  
United States. Congress. House. Select Committee to Investigate the Use of Chemicals in Food Products, 1951

**Preparation of the Cod and Other Salt Fish for the Market** Arvill Wayne Bitting, 1911      **Automatic Chemical Analysis** Peter B. Stockwell, 1996-07-25 Written with practical experience of many of the systems it describes this book provides coverage of all aspects of automation from sample preparation right through to data processing The book also includes Coverage Of Robotics Computer Applications And Process Control And The scope and limitations of each development are discussed Three prac      **Chromatography in Food Science and Technology** Tibor Cserhati, Esther Forgacs, 2020-08-26 oCompilation and evaluation of the newest applications of chromatography for food science and technology oEnumeration of chromatographic methods and critical discussion of results This book presents a unique collection of up to date chromatographic methods for the separation and quantitative determination of carbohydrates lipids proteins peptides amino acids vitamins aroma and flavor compounds in a wide variety of foods and food products Chromatography in Food Science and Technology presents a concise evaluation of existing chromatographic methods used for many food and food product macro and microcomponents Chromatographic methods are compiled according to the character of the food components to be separated The book s chapters deal separately with the different classes of food components presenting both gas and liquid chromatographic methods used for their determination and discussing the advantages and disadvantages of each Unlike other references Chromatography in Food Science and Technology is entirely devoted to the use of chromatography for food analysis and focuses on practical food related examples It treats the theoretical aspects of chromatography briefly to the degree that the information helps the use and development of new

analytical methods for the separation of any kind of food components      **Bulletin** ,1913      *Halal and Kosher Food* Osman Ahmed Osman, Abdel Moneim Elhadi Sulieman, 2023-10-12 In both Islamic and non Islamic countries many population groups worldwide such as vegetarians and people of the Jewish faith consumers do not eat pork Amongst these groups consumers are concerned about importing processed food which may contain or has been contaminated with pork or swine derived products This is especially true of halal foods in Muslim communities where the foods may be prepared or processed utilizing one of more non halal ingredients Halal and kosher foodstuff play an incredibly important role in the Muslim and Jewish diet economy and health This makes halal and kosher food product quality safety and shelf life preservation a major topic in these communities and for the manufacturers of halal and kosher food products Halal and Kosher Food Integration of Quality and Safety for Global Market Trends covers a wide range of important topics in halal foods including quality standards safety of food additives antimicrobial and veterinary drug residues aflatoxin in feedstuff application of Hazards Analysis and critical Control Points HACCP Important data regarding halal and kosher food similarities and differences are covered in full Best practices in halal food product manufacturing are covered plus the importance of halal food safety for consumer health Written by elite international halal food experts this work differs from other books on the subject which focus on history legislation and certification Readers can utilize this book as an orientation and practical guidebook to recognize the quality and safety of halal food products

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