

Chemical and Functional Properties
of Food Components Series



*Chemical and
Functional
Properties of
Food Components*

Fourth Edition

EDITED BY
Hanna Staroszczyk
and Zdzisław E. Sikorski



CRC Press
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Chemical And Functional Properties Of Food Components Second Edition

Piotr Tomasik



Chemical And Functional Properties Of Food Components Second Edition:

Chemical and Functional Properties of Food Components, Second Edition Zdzislaw E. Sikorski, 2002-06-27 An advanced text reference this book provides an overview of the composition structure and functionality of key food components and their effects on food product quality It emphasizes the mechanisms of reactions of components in food systems during storage and processing and their effects on the quality attributes of food products including nutrition and sensory attributes International experts provide concise presentations of the current state of knowledge on the content structure chemical reactivity and functional properties of food components This second edition includes two new chapters covering chemical composition and structure in foods and probiotics in foods Chemical and Functional Properties of Food Components Hanna Staroszczyk, Zdzislaw E. Sikorski, 2023-05-22 Over three editions this book described the contents of food raw materials and products the chemistry biochemistry of food components as well as the changes occurring during post harvest storage and processing affecting the quality of foods The fourth edition of Chemical and Functional Properties of Food Components discusses the role of chemical compounds in the structure of raw materials and the formation of different attributes of food quality including nutritional value safety and sensory properties This new edition contains four new chapters Non Protein Nitrogenous Compounds Prooxidants and Antioxidants in Food Non Nutritive Bioactive Compounds in Food of Plant Origin and Analytical Methods Used for Assessing the Quality of Food Products These chapters have been included because new research results have brought increasing knowledge on the effect of non protein nitrogenous compounds especially bioactive peptides nucleic acids and biogenic amines on the biological properties of foods the role of natural and added prooxidants and antioxidants in the processing and biological impact of foods numerous beneficial and harmful effects of bioactive components of plant foods and new systems for control of food composition and the safety of foods Features Stresses the effect of the chemical biochemical reactions on the selection of optimum parameters of food processing without presenting details of the technological processes Describes naturally occurring elements and compounds as well as those generated during food handling in view of health hazards they may bring to consumers Discusses the risks and benefits of reactions occurring during food handling The knowledge of the chemistry and biochemistry of the components and their interactions presented in this book aids food scientists in making the right decisions for controlling the rate of beneficial and undesirable reactions selecting optimal storage and processing parameters as well as the best use of food raw materials Methods of Analysis of Food Components and Additives, Second Edition Semih Otles, 2011-11-16 With diet health and food safety news making headlines on a regular basis the ability to separate identify and analyze the nutrients additives and toxicological compounds found in food and food components is more important than ever This requires proper training in the application of best methods as well as efforts to improve existing methods to meet analytical needs Advances in instrumentation and applied instrumental analysis methods have allowed scientists concerned with food and beverage

quality labeling compliance and safety to meet these ever increasing analytical demands This updated edition of *Methods of Analysis of Food Components and Additives* covers recent advances as well as established methods in a concise guide presenting detailed explanations of techniques for analysis of food components and additives Written by leading scientists many of whom personally developed or refined the techniques this reference focuses primarily on methods of food analysis and novel analysis instruments It provides readers with a survey of modern analytical instruments and methods for the analysis of food components additives and contaminants Each chapter summarizes key findings on novel analysis methods including the identification speciation and determination of components in raw materials and food products The text describes the component or additive that can be analyzed explains how it works and then offers examples of applications This reference covers selection of techniques statistical assessments analysis of drinking water and rapid microbiological techniques It also describes the application of chemical physical microbiological sensorial and instrumental novel analysis to food components and additives including proteins peptides lipids vitamins carotenoids chlorophylls and food allergens as well as genetically modified components pesticide residues pollutants chemical preservatives and radioactive components in foods The Second Edition contains three valuable new chapters on analytical quality assurance the analysis of carbohydrates and natural toxins in foods along with updates in the remaining chapters numerous examples and many new figures

Chemical and Functional Properties of Food Proteins Zdzislaw E. Sikorski, 2001-06-22 *Chemical and Functional Properties of Food Proteins* presents the current state of knowledge on the content of proteins in food structures the chemical functional and nutritive properties of food proteins the chemical and biochemical modification of proteins in foods during storage and processing and the mutagenicity and carcinogenicity of nitrogenous compounds It emphasizes the structure function relationship as well as the effects of practical conditions applied in food processing on the biochemical and chemical reactions in food proteins and food product quality The first ten chapters discuss structure function relationships methods of analysis of nitrogenous compounds chemical and enzymatic modifications nutritive roles and mutagenicity and carcinogenicity of food proteins The following six chapters describe the proteins of meat and fish milk eggs cereals legumes oilseeds and single cell organisms and present detailed information on the effects of conditions applied in storage and processing on the reactions in proteins and their impact on quality attributes of food products

Chemical and Functional Properties of Food Saccharides Piotr Tomasik, 2003-10-20 This fourth volume in the *Chemical and Functional Properties of Food Components* series focuses on saccharides as food constituents Written by an international group of experts it provides an up to date review of a wide spectrum of issues focusing on the current research and literature on the properties of compounds their mechanisms of action a

Chemical and Functional Properties of Food Lipids Zdzislaw Z. E. Sikorski, Anna Kolakowska, 2010-12-12 *Chemical and Functional Properties of Food Lipids* provides a concise straightforward treatment of the present state of knowledge of the nomenclature content composition occurrence distribution chemical and

biological reactivity functional properties and biological role of lipids in food systems Written by a team of international researchers and based on the available world literature this book examines the nature technological properties reactivity and health related concerns and benefits of food lipids It covers the effects of storage and processing conditions on all aspects of quality of lipid containing foods and reviews the current state of techniques for lipid analysis The volume also discusses the importance of lipids in the human diet and includes a comparison of dietary recommendations for lipid intake This is a valuable reference for researchers and graduate students in food chemistry and nutrition *Carcinogenic and Anticarcinogenic Food Components* Wanda Baer-Dubowska, Agnieszka Bartoszek, Danuta Malejka-Giganti, 2005-09-22 Dietary cancer prophylaxis is based on the detailed knowledge of carcinogenic and anticarcinogenic properties of food constituents Although much data has been collected on these elements an understanding of the causal mechanisms that link diet and cancer is still evolving *Carcinogenic and Anticarcinogenic Food Components* explains the broad spect Chemical, Biological, and Functional Aspects of Food Lipids Zdzislaw Z. E. Sikorski, Anna Kolakowska, 2010-11-04 Based on years of academic and industrial research by an international panel of experts *Chemical Biological and Functional Properties of Food Lipids* Second Edition provides a concise yet well documented presentation of the current state of knowledge on lipids Under the editorial guidance of globally recognized food scientists Zdzislaw E Siko Methods of Analysis of Food Components and Additives Semih Otles, 2005-04-26 With diet and health news making headlines on a regular basis the ability to separate identify and analyze the nutrients additives and toxicological compounds found in food and food compounds is more important than ever This requires proper training in the application of the best methods as well as knowledgeable efforts to improve existing methods to meet certain analytical needs *Methods of Analysis for Food Components and Additives* is a concise guide to both new and established methods for the analysis of food components and additives The book presents detailed explanations of modern methods of analysis by 32 leading scientists many of whom personally developed or refined the techniques They summarize key findings on novel methods of analysis of food components additives and contaminants including the identification speciation and determination of components in raw materials and food products Each chapter is structured to provide a description of the component or additive that can be analyzed a simple method explanation of how it works examples of applications and references for more specific information This comprehensive volume features all major classes of food components and contaminants along with components of current interest to the nutraceutical and functional foods industries It is an essential reference for food scientists and chemists as well as food manufacturers and researchers interested in the many methods of food analysis **Food Oxidants and Antioxidants** Grzegorz Bartosz, 2013-06-21 Food antioxidants are of primary importance for the preservation of food quality during processing and storage However the status of food depends on a balance of antioxidants and prooxidants occurring in food *Food Oxidants and Antioxidants* Chemical Biological and Functional Properties provides a single volume reference on the effects of natur Toxins and Other Harmful

Compounds in Foods A. Witczak, Zdzislaw Sikorski, 2017-01-12 Presents information based on scientific evidence on the contents of harmful compounds in food raw materials and products such as grains fruits and vegetables mushrooms seafood milk and dairy products meats and various processed foods Shows the effects of environmental pollution and the conditions of harvesting and storage of the raw materials on food contamination Discusses the real food safety hazards to the consumers caused by toxins of microbial origin and chemical contamination Describes the beneficial role of processing to decrease the contents of harmful components in food products Presents the role of legislation quality assurance systems and available analytical techniques in assuring food safety

Meat Quality Wieslaw Przybylski, PhD, David Hopkins, PhD, 2015-10-15 One of the biggest challenges faced by meat producers today is the requirement to improve the quality of meat while maintaining focus on efficiency and higher yields Numerous studies have shown that consumers are willing to pay premiums for meat products with guaranteed eating quality This book examines the complicated multistep process of production

Fermentation Bhavbhuti M. Mehta, Afaf Kamal-Eldin, Robert Z. Iwanski, 2012-04-12 A large variety of food products all over the world are prepared by the fermentation of various raw materials Fermentation Effects on Food Properties explores the role of fermentation reactions in the chemical functional and sensory properties of food components as well as their effect on food component content and biological activity Emphasizing the various chemical changes that take place during processing both pre and post fermentation the book explores The complex microbial community in fermented foods The generation of the flavor and aroma compounds in fermented foods The effect of fermentation on the rheological properties and the color of foods The effect of fermentation on bioactivities of foods How microorganisms during fermentation can remove or detoxify antinutritional compounds in raw foods The fortification of products derived from fermentation processes and technical issues in the production and distribution of such foods Fermentation processes for cereals legumes vegetables dairy products seafood and meat Food safety and adherence to the Hazard Analysis and Critical Control Points HACCP principles Mastering today's art of fermentation processes requires detailed knowledge of food raw materials microbiology enzymology chemistry biochemistry physics engineering and technology This volume is an important starting point in understanding the process Presented in concise accessible chapters contributed by food experts the book contains ample references to enhance further more detailed exploration of this critical topic as we search for ways to enhance food quality for better health

Dictionary of Food Compounds with CD-ROM, Second Edition Shmuel Yannai, 2012-10-23 The increasing world population competition for arable land and rich fishing grounds and environmental concerns mandate that we exploit in a sustainable way the earth's available plant and animal resources for human consumption To that end food chemists technologists and nutritionists engage in a vast number of tasks related to food availability quality safety nutritional value and sensory properties as well as those involved in processing storage and distribution To assist in these functions it is essential they have easy access to a collection of information on the myriad compounds found in foods This is particularly true because even

compounds present in minute concentrations may exert significant desirable or negative effects on foods Includes a foreword by Zdzislaw E Sikorski Gda sk University of Technology Poland Editor of the CRC Press Chemical Functional Properties of Food Components Series Dictionary of Food Compounds Second Edition is presented in a user friendly format in both hard copy and fully searchable CD ROM It contains entries describing natural components of food raw materials and products as well as compounds added to foods or formed in the course of storage or processing Each entry contains the name of the component the chemical and physical characteristics a description of functional properties related to food use and nutritional and toxicological data Ample references facilitate inquiry into more detailed information about any particular compound Food Compounds Covered Natural Food Constituents Lipids Proteins Carbohydrates Fatty acids Flavonoids Alkaloids Food Contaminants Mycotoxins Food Additives Colorants Preservatives Antioxidants Flavors Nutraceuticals Probiotics Dietary Supplements Vitamins This new edition boasts an additional 12 000 entries for a total of 41 000 compounds including 900 enzymes found in food No other reference work on food compounds is as complete or as comprehensive

Toxins in Food Waldemar M. Dabrowski,Zdzislaw E. Sikorski,2004-11-15 While systems such as GMP and HACCP assure a high standard of food quality foodborne poisonings still pose a serious hazard to the consumer s health The lack of knowledge among some producers and consumers regarding the risks and benefits related to food makes it imperative to provide updated information in order to improve food safety To Environmental Effects on Seafood Availability, Safety, and Quality E. Grazyna Dackowska-Kozon,Bonnie Sun Pan,2016-04-19 An essential part of diverse marine ecosystems seafood organisms are especially vulnerable to changes in their natural habitats that affect their reproductive abilities growth rate and mutual inter and intra species interactions Environmental Effects on Seafood Availability Safety and Quality Issues discusses a variety of factors both intri

Chemical and Functional Properties of Food Components Zdzislaw E. Sikorski,2006-10-25 Water saccharides proteins lipids minerals colorants and additives all contribute to the nutritional value and sensory properties of food During post harvest storage and processing these components change and the extent and nature of change depends on the chemical properties of the compounds themselves Knowledge of the chemistry and bioche

Dictionary of Food Compounds Shmuel Yannai,2012-10-23 The increasing world population competition for arable land and rich fishing grounds and environmental concerns mandate that we exploit in a sustainable way the earth s available plant and animal resources for human consumption To that end food chemists technologists and nutritionists engage in a vast number of tasks related to food availability quality safety nutritional value and sensory properties as well as those involved in processing storage and distribution To assist in these functions it is essential they have easy access to a collection of information on the myriad compounds found in foods This is particularly true because even compounds present in minute concentrations may exert significant desirable or negative effects on foods Includes a foreword by Zdzislaw E Sikorski Gdansk University of Technology Poland Editor of the CRC Press Chemical Functional Properties of Food Components Series Dictionary of Food

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Improving the Fat Content of Foods C

Williams, J Buttriss, 2006-01-31 As health problems such as obesity heart disease and diabetes increase in many developed and developing countries the food industry has come under mounting pressure to improve the nutritional quality of its products Particular attention has focused on the health problems associated with saturated fats in food and on the potential health benefits of increasing monounsaturated and polyunsaturated fat content Summarising key research in this field this important collection reviews both the influence of dietary fats on health and practical strategies for improving the fat content of food products Part one reviews the evidence on the links between dietary fats and health There are chapters on the links between saturated fatty acid intake obesity coronary heart disease diabetes and cancer as well as the health benefits of monounsaturated fats polyunsaturated fatty acids PUFAs and conjugated linoleic acids CLAs Part two then discusses ways of reducing saturated fatty acids in food It includes chapters on the role of lipids on food quality and ways of gaining consumer acceptance of low fat foods as well as chapters on improving fatty acid composition in dairy products and milk and the use of fat replacers The final part of the book reviews ways of using polyunsaturated and other modified fatty acids in food products It includes chapters on developing and using PUFAs as functional ingredients and ways of improving the sensory quality of products incorporating modified fats With its distinguished editors and international team of contributors Improving the fat content of foods is a standard reference for nutritionists and product developers in the food industry Reviews the influence of dietary fats on health Investigates practical strategies for improving the fat content of food products Discusses improving the fat content of foods whilst maintaining sensory quality

Introduction to Food Chemistry Richard

Owusu-Apenten, 2004-12-16 Providing a thorough introduction to the core areas of food science specified by the Institute of Food Technologists Introduction to Food Chemistry focuses on principles rather than commodities and balances facts with explanations The text covers the major areas of food science including food chemistry food analysis and methods for quality assurance

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