

The Chemistry of Oils and Fats

Sources, Composition, Properties
and Uses

Frank Gunstone

The Chemistry Of Oils And Fats Sources Composition Properties And Uses

James W. Lee



The Chemistry Of Oils And Fats Sources Composition Properties And Uses:

The Chemistry of Oils and Fats Frank Gunstone, 2009-02-12 The three major macronutrients are proteins carbohydrates and lipids oils and fats This book is devoted to lipids which are an important part of life for all of us What are these materials in molecular terms Where do they come from What happens to them between the harvesting of crops and the appearance of the oils and fats in different products in the supermarket How does nature produce these molecules and can we act on nature to modify the materials to increase their beneficial properties How important are the minor products present in the fats that we consume Since oils and fats vary how can we analyse them What are their physical chemical and nutritional properties How do the fats that we consume affect our health and well being in both quantitative and qualitative terms What are their major food and non food uses This book provides a broad source of reference on oils and fats chemistry for graduates entering the food and oleochemical industries postgraduate researchers and nutritionists It offers a point of entry to the detailed literature

The Chemistry of Oils and Fats F. D. Gunstone, 2004 The three major macronutrients are proteins carbohydrates and lipids oils and fats This book is devoted to lipids which are an important part of life for all of us What are these materials in molecular terms Where do they come from What happens to them between the harvesting of crops and the appearance of the oils and fats in different products in the supermarket How does nature produce these molecules and can we act on nature to modify the materials to increase their beneficial properties How important are the minor products present in the fats that we consume Since oils and fats vary how can we analyse them What are their physical chemical and nutritional properties How do the fats that we consume affect our health and well being in both quantitative and qualitative terms What are their major food and non food uses This book provides a broad source of reference on oils and fats chemistry for graduates entering the food and oleochemical industries postgraduate researchers and nutritionists It offers a point of entry to the detailed literature

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Fish Oil Replacement and Alternative Lipid Sources in Aquaculture Feeds Giovanni M. Turchini, Wing-Keong Ng, Douglas Redford Tocher, 2010-07-19 Experts are predicting that demand for marine fish oil will soon outstrip supply creating extreme urgency within the global aquafeed industry to find viable alternatives Fish Oil Replacement and Alternative Lipid Sources in Aquaculture Feeds is the first comprehensive review of this multifaceted complex issue It also addresses the crucial quest

Natural Drugs from Plants Hany El-Shemy, 2022-05-11 Natural Drugs from Plants emphasizes the importance of medicinal plants for drug discovery worldwide Chapters discuss the active ingredients of certain medicinal plants their mechanisms of action and how they can be used to treat different diseases

Cellular Agriculture Evan D. G. Fraser, David L. Kaplan, Lenore Newman, Rickey Y. Yada, 2023-11-17 Cellular Agriculture Technology Society Sustainability and Science provides a state of the art review of cellular agriculture technologies From cell selection to scaffolding and everything in between this book contains chapters authored by leading cellular agriculture researchers and

product developers across the world Driven by consumer desire for sustainable food production animal welfare improvements and better human health companies around the world are racing to engineer alternative protein products with the best flavour appearance and texture A major challenge many of these early stage companies struggle with is having the foundational science and technical knowledge to start their journey in this emerging industry This text provides detailed information on the current state of the science and technology of cellular agriculture It combines the social aspects that need to be considered to create a level playing field to give each emerging idea the best chance at realizing the ultimate vision of cellular agriculture satisfying the demand for protein around the world in a way that is better for humans animals and the planet This is the first resource of its kind to take a practical approach to review the design feasibility and implementation of cellular agriculture techniques With additional chapters on life cycle analyses and ideal transition scenarios this book provides a resource for aspiring technology developers and academics alike seeking evidence based assessments of the industry and its disruptive potential Written by industry and academic experts for balanced perspective Presents foundational information with practical application insights Includes chapters on regulatory and policy issues Reviews the sustainability challenges of alternative proteins

Chemistry of Renewables Arno Behr,Thomas Seidensticker,2020-10-29 This textbook introduces the industrial production and processing of natural resources It is divided into six major topics fats and oils carbohydrates lignin terpenoids other natural products biorefinery which are divided into a total of 20 chapters Each chapter is self contained and therefore a compact learning unit which can be worked on by students in self study or presented by lecturers Clear illustrations flow diagrams apparatus drawings and photos facilitate the understanding of the subject matter All chapters end with a succinct summary the Take Home Messages Each chapter is supplemented by ten short test questions which can be solved quickly after working through the chapter the answers are at the end of the book All chapters contain bibliographical references that focus on essential textbooks and reference works As a prior knowledge only basic knowledge of chemistry is required

Agronomic Rice Practices and Postharvest Processing Deepak Kumar Verma,Prem Prakash Srivastav,Altafhusain B. Nadaf,2018-12-07 This volume addresses three important agricultural aspects of rice physical characteristics physico chemical characteristics and the organoleptic aspects Divided into sections the book first examines recent trends and advances for higher production and quality improvement focusing on the effects of climate on rice cultivation and climate resilient agricultural practices in rice The volume goes on to cover nutrient management for rice production and quality improvement Chapters also address weed management and postharvest processing practices for improved rice production With chapters from renowned scientists researchers and professors this book will be a useful reference for rice researchers working in the area of agronomic practices postharvest processing and quality improvement in rice

Green Materials from Plant Oils Zengshe Liu,George A Kraus,2014-11-03 Finding alternatives to fossil feedstocks is increasing in importance with the challenges of global warming increasing oil prices and depleting fossil fuel reserves that

we currently face Today plant oils are important renewable raw materials for the chemical industry and are heavily used for surfactants cosmetic products and lubricants This book covers the green chemistry of products and intermediates synthesised from plant oils Photo initiated polymerisation and polymerization of vegetable oils in environmental media are covered as well as click reactions to chemically modify vegetable oils Useful products from plant oils such as polymers biomaterials biofibres and lubricants as well as their further applications are described This book is a valuable resource for researchers in academia and industry biomass producers and suppliers and manufacturers of end products

Food Processing Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-04-03 FOOD PROCESSING Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science

The Elements of Chemistry William Foster, 1925

Advances in Internal Combustion Engines and Fuel Technologies Hoon Kiat Ng, 2013-03-20 This book highlights the important need for more efficient and environmentally sound combustion technologies that utilise renewable fuels to be continuously developed and adopted The central theme here is two fold internal combustion engines and fuel solutions for combustion systems Internal combustion engines remain as the main propulsion system used for ground transportation and the number of successful developments achieved in recent years is as varied as the new design concepts introduced It is therefore timely that key advances in engine technologies are organised appropriately so that the fundamental processes applications insights and identification of future development can be consolidated In the future and across the developed and emerging markets of the world the range of fuels used will significantly increase as biofuels new fossil fuel feedstock and processing methods as well as variations in fuel standards continue to influence all combustion technologies used now and in coming streams This presents a challenge requiring better understanding of how the fuel mix influences the combustion processes in various systems The book allows extremes of the theme to be covered in a simple yet progressive way

Labs on Chip Eugenio Iannone, 2018-09-03 Labs on Chip Principles Design and Technology provides a complete reference for the complex field of labs on chip in biotechnology Merging three

main areas fluid dynamics monolithic micro and nanotechnology and out of equilibrium biochemistry this text integrates coverage of technology issues with strong theoretical explanations of design techniques Analyzing each subject from basic principles to relevant applications this book Describes the biochemical elements required to work on labs on chip Discusses fabrication microfluidic and electronic and optical detection techniques Addresses planar technologies polymer microfabrication and process scalability to huge volumes Presents a global view of current lab on chip research and development Devotes an entire chapter to labs on chip for genetics Summarizing in one source the different technical competencies required Labs on Chip Principles Design and Technology offers valuable guidance for the lab on chip design decision making process while exploring essential elements of labs on chip useful both to the professional who wants to approach a new field and to the specialist who wants to gain a broader perspective

Advanced Biofuels and Bioproducts James W. Lee, 2012-08-30 Designed as a text not only for students and researchers but anyone interested in green technology Advanced Biofuels and Bioproducts offers the reader a vast overview of the state of the art in renewable energies The typical chapter sets out to explain the fundamentals of a new technology as well as providing its context in the greater field With contributions from nearly 100 leading researchers across the globe the text serves as an important and timely look into this rapidly expanding field The 40 chapters that comprise Advanced Biofuels and Bioproducts are handily organized into the following 8 sections Introduction and Brazil's biofuel success Smokeless biomass pyrolysis for advanced biofuels production and global biochar carbon sequestration Cellulosic Biofuels Photobiological production of advanced biofuels with synthetic biology Lipids based biodiesels Life cycle energy and economics analysis High value algal products and biomethane Electrofuels

Trans Fatty Acids Albert J. Dijkstra, Richard J. Hamilton, Wolf Hamm, 2008-04-30 Trans fatty acids TFAs have been used for many years to impart desirable physical characteristics to fats and fat blends used in food manufacturing However clinical trials and epidemiological studies conducted over the last thirty years have shown that TFAs can increase bad cholesterol levels in the blood while reducing good cholesterol Accordingly they are also linked with increased risks of coronary heart disease thrombosis and strokes For this reason the food industry has been obliged to find alternatives to TFAs thus enabling it to meet the presumed consumer demand for low or no trans fats products The issue is becoming more and more pressing For example US labelling regulations now require that food manufacturers state the trans fat content of their products on the packaging This book provides an overview of trans fatty acids in oils and fats used in food manufacture Topics covered include the chemistry and occurrence of TFAs analytical methods for determining the fatty acid composition including TFAs of foods processing techniques for reducing minimising or even avoiding the formation of TFAs TFA alternatives in food health and nutrition concerns and legislative aspects It is directed at chemists and technologists working in edible oils and fats processing and product development food scientists and technologists analytical chemists and nutritionists working in the food industry

Essential Fatty Acids Sanju Bala Dhull, Sneh Punia, Kawaljit Singh

Sandhu,2020-10-01 Essential fatty acids are fatty acids that humans must ingest because the body requires them for good health but it cannot synthesize itself Therefore such nutrients need to be supplied from either diet or dietary supplements Recent studies raised scientific and medical interest in the beneficial effects of these fatty acids on brain and retina function as well as reducing ill health effects such as cardio metabolic diseases Thus there is an interest in developing requirements and dietary recommendations Essential Fatty Acids Sources Processing Effects and Health Benefits provides a systematic introduction and comprehensive information about the essentiality of diets rich in omega fatty acids for successful human growth development and disease prevention This book presents detailed knowledge about essential fatty acids their different food sources biochemistry and metabolism It provides a comprehensive assessment of current knowledge about the effects of various processing and storage conditions on essential fatty acids their bioavailability and supplementation in foods and diet Chapters highlight the contribution of essential fatty acids in prevention and improvement of various conditions such as heart problems arthritis cancer brain and bone health especially in developing fetuses and children Key Features Presents comprehensive information on nutritional and health aspects of fats and essential fatty acids Contains a wealth of information on the structure sources biochemistry and nutritional properties of essential fatty acids Provides the latest information about the changes in essential fatty acids during various processing and storage conditions Highlights the bioavailability supplementation and dietary requirements of these fatty acids By bringing together diverse areas of biochemistry storage as well as processing behavior and dietary requirements this book lays the groundwork for striking expansion in our understanding of these important biochemicals and their role in health and disease prevention Essential Fatty Acids will be of interest to a large and varied audience of researchers in academia industry nutrition dietetics food science agriculture and regulators

The Lipid Handbook with CD-ROM Frank D. Gunstone,John L. Harwood,2007-03-13 Extensively revised reorganized and expanded the third edition of the industry standard The Lipid Handbook reflects many of the changes in lipid science and technology that have occurred in the last decade It places a stronger emphasis on the nutritional medical and agricultural aspects of lipids to reflect the increased interest and research in these areas in the past 10 years and beyond This edition features updated chapters and expanded coverage including additional compounds to its dictionary Written by experts from a diverse range of fields many of whom have contributed new research in the areas under review this handbook remains an essential reference

Advances in Food Biochemistry Fatih Yildiz,2009-12-16 Understanding the biochemistry of food is basic to all other research and development in the fields of food science technology and nutrition and the past decade has seen accelerated progress in these areas Advances in Food Biochemistry provides a unified exploration of foods from a biochemical perspective Featuring illustrations to elucidate m

Analytical Techniques in Materials Conservation Barbara H. Stuart,2007-03-19 This book will introduce the reader to the wide variety of analytical techniques that are employed by those working on the conservation of materials An introduction to each technique is provided with explanations

of how data may be obtained and interpreted Examples and case studies will be included to illustrate how each technique is used in practice The fields studied include inorganic materials polymers biomaterials and metals Clear examples of data analysis feature designed to assist the reader in their choice of analytical method *Analytical Techniques and Methods for Biomass* Silvio Vaz Jr.,2025-08-09 This book deals with the application of techniques and methods of chemical analysis for the study of biomass and its conversion processes It aims to fill the existing gap in the literature on this subject The application of various techniques and analytical methods is presented straightforwardly enabling readers to choose the most appropriate methodologies for analyzing the major classes of plant biomass and their products Modern chemistry plays a crucial economic role in industrial activities based on biomass There is an increasing emphasis on its application specifically in the development of biorefineries and the principles of green chemistry allow effective use of biomass while significantly reducing environmental impact In this context analytical chemistry can contribute significantly to the supply chains of biomass be it plant or animal origin However biomass from plant sources presents both the greatest challenges and the highest opportunity for technical scientific and economic progress due to its diverse chemical constitution Chemical analysis can be used to examine the composition of biomass characterize its physicochemical properties and monitor their conversion processes This approach can enhance the quality of products derived from biomass and expand their potential applications The quality of the biomass used determines the product quality Therefore reliable information about the chemical composition of the biomass to establish the best use which will influence harvest and preparation steps is essential Accordingly this book includes contributions from select international experts who discuss key aspects of biomass structure their physical and chemical properties the parameters of conversion processes the products and by products formation and quantification and quality parameters

The Top Books of the Year The Chemistry Of Oils And Fats Sources Composition Properties And Uses The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. The Chemistry Of Oils And Fats Sources Composition Properties And Uses : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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