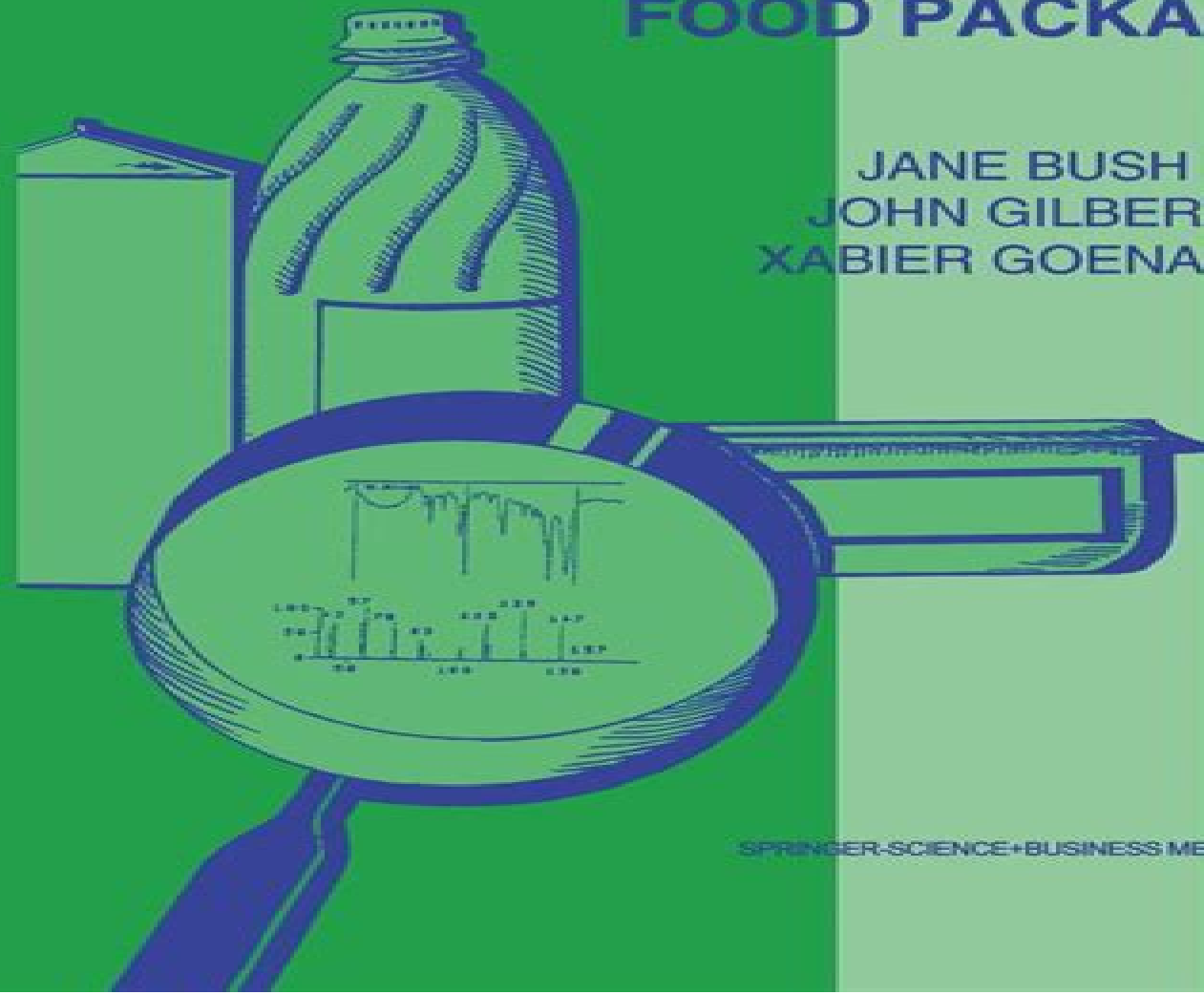


# SPECTRA FOR THE IDENTIFICATION OF MONOMERS IN FOOD PACKAGING

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# Spectra For The Identification Of Monomers In Food Packaging

**DP Hallahan**



## **Spectra For The Identification Of Monomers In Food Packaging:**

Spectra for the Identification of Monomers in Food Packaging Jane Bush, John Gilbert, Xabier Goenaga, 1993-12-31  
Provides essential practical information for State Control Laboratories and for others concerned with ensuring compliance with European Community Directive 90 128 relating to plastics materials and articles intended to come into contact with foodstuffs Gives advice on the sampling of retail packaging determining the identity of the plastics and thus ascertaining which monomer residues are likely to be present Lists 163 monomers and starting substances and includes for each substance structure formulae CAS PM number and trivial name information on physical characteristics storage stability and safety Provides information on known applications of the substances and the food contact uses of the derived plastics materials Provides infrared spectra and electron ionization mass spectra and in some cases the IR spectra of the parent polymers

**Spectra for the Identification of Monomers in Food Packaging** Jane Bush, John Gilbert, Xabier Goenaga, 1994-01-14 This Handbook provides essential practical information for State Control Laboratories and for others concerned with ensuring compliance with European Community Directive 90 128 relating to plastics materials and articles intended to come into contact with foodstuffs The Handbook begins with a chapter giving practical advice on the sampling of retail packaging determining the identity of the plastics and thus ascertaining which monomer residues are likely to be present For every monomer or starting substance listed in 90 128 Annex A there is an entry in the Handbook giving the structure formulae CAS PM number and trivial name together with information on physical characteristics storage stability and safety Information is provided on known applications of the substances and the food contact uses of the derived plastics materials There is a brief description of the analytical approach for testing compliance with SML or QM limits and references to the published literature as well as indications of laboratories presently contracted by BCR to undertake method development Infrared spectra and electron ionization mass spectra are provided in a standard format for each substance and in some cases the IR spectra of the parent polymers are given Most of the 166 substances listed in the Handbook will be made available upon request as reference standards as either the pure substance or as a calibrant solution

*Spectra for the Identification of Additives in Food Packaging* Ben van Lierop, Laurence Castle, Alexandre Feigenbaum, Achim Boenke, 2012-12-06 This new book on additives used in plastics for food contact can be seen as a companion to the 1993 publication *Spectra for the Identification of Monomers in Food Packaging* 1 2 That earlier book presented information on monomeric substances listed in Directive 90/128 EEC 3 which restricts the range of monomers and other starting substances that can be used for the production of plastics materials and articles intended for food contact applications As a logical supplement to the collection of monomers and other starting substances the preparation of a reference collection and a Handbook of analytical data of additives was undertaken with funding from The European Commission under the Standards Measurements and Testing programme We then give a collection of spectra for the identification of 100 of the most

important additives used in plastics packaging and coatings Infra red FT IR and mass spectra MS are presented as in the monomers book but we have extended the scope to include proton nuclear magnetic resonance <sup>1</sup>H NMR spectra and gas chromatographic GC data Legal Framework The Commission of the European Communities provides in Synoptic Document N 7 4 a provisional list of additives used for the production of food contact plastics This Synoptic Document anticipates a Directive on additives for food contact plastics One hundred of the most important additives were selected from this provisional list after extensive consultation with researchers in the field and with representatives from European industry Food Contact Additives Panel FCA sector group of the European Chemical Industry Council CEFIC

*Additives in Polymers* Jan C. J. Bart, 2005-04-08 This industrially relevant resource covers all established and emerging analytical methods for the deformation of polymeric materials with emphasis on the non polymeric components Each technique is evaluated on its technical and industrial merits Emphasis is on understanding principles and characteristics and industrial applicability Extensively illustrated throughout with over 200 figures 400 tables and 3 000 references

*Lacquers in Cans*, 1998 From Introduction Food contact materials comprise a broad and complex area A Nordic workshop on lacquers in cans was arranged in Denmark in April 1998 The goals of the workshop were to collect knowledge within the area of lacquers for cans and furthermore to formulate advice and guidelines for all links in the chain from producers of lacquers to regulators and food inspection

Proposals for Official Control of Materials Intended to Come Into Contact with Foodstuffs, 1997

Additive Migration from Plastics Into Foods Thomas Roy Crompton, 2007 Plastics are now being used on a large scale for the packaging of fatty and aqueous foodstuffs and beverages both alcoholic and non alcoholic Thus it is likely that some transfer of polymer additives will occur adventitious impurities such as monomers oligomers catalyst remnants and residual polymerisation solvents and low molecular weight polymer fractions from the plastic into the packaged material with the consequent risk of a toxic hazard to the consumer This book covers all aspects of the migration of additives into food and gives detailed information on the analytical determination of the additives in various plastics This book will be of interest to those engaged in the implementation of packaging legislation including management analytical chemists and the manufacturers of foods beverages pharmaceuticals and cosmetics and also scientific and toxicologists in the packaging industry

*Polymer Additive Analytics* Jan C. J. Bart, 2006

**Plastic Packaging Materials for Food** Otto G. Piringer, A. L. Baner, 2008-07-11 Plastics have developed into the most important class of packaging materials Their relative impermeability for substances from the surroundings has great influence on the shelf life and the quality of the packed goods At the same time the interaction between the contents and the various components of the packaging plays a decisive role This particular book is indispensable in the search for the optimal plastic packaging It facilitates the estimation of the influence on the goods which come from the surroundings and from the packaging The authors do not restrict themselves only to the description of the phenomena of diffusion or transport in theory but they show what they mean for practical applications Food represents

the central theme as main area of application for plastic packaging It can be considered to be the model substance and the findings are to be applied to many other products and systems The main rules and regulations for food packaging of the European Community and the United States are presented in this book Furthermore the authors emphasize the testing methods for proving the mass transport and the sensory check of the quality of the products *Plastic Packaging* Otto G. Piringer, A. L. Baner, 2008-06-25 Plastics are the most important class of packaging materials This successful handbook now in its second edition covers all important aspects of plastic packaging and the interdisciplinary knowledge needed by food chemists pharmaceutical chemists food technologists materials scientists process engineers and product developers alike This is an indispensable resource in the search for the optimal plastic packaging Materials characteristics additives and their effects mass transport phenomena quality assurance and recent regulatory requirements from FDA and European Commission are covered in detail with ample data Euroabstracts ,1995 **Euro Abstracts** ,1995 **Handbook of Food Analysis** Leo M.L. Nollet, 2004-06-01 Thoroughly updated to accommodate recent research and state of the art technologies impacting the field Volume 2 Residues and Other Food Component Analysis of this celebrated 3 volume reference compiles modern methods for the detection of residues in foods from pesticides herbicides antibacterials food packaging and other sources Volume 2 ev *Agrindex* ,1995 *Injection Molding Handbook* D.V. Rosato, Marlene G. Rosato, 2012-12-06 This third edition has been written to thoroughly update the coverage of injection molding in the World of Plastics There have been changes including extensive additions to over 50% of the content of the second edition Many examples are provided of processing different plastics and relating the results to critical factors which range from product design to meeting performance requirements to reducing costs to zero defect targets Changes have not been made that concern what is basic to injection molding However more basic information has been added concerning present and future developments resulting in the book being more useful for a long time to come Detailed explanations and interpretation of individual subjects more than 1500 are provided using a total of 914 figures and 209 tables Throughout the book there is extensive information on problems and solutions as well as extensive cross referencing on its many different subjects This book represents the ENCYCLOPEDIA on IM as is evident from its extensive and detailed text that follows from its lengthy Table of CONTENTS and INDEX with over 5200 entries The worldwide industry encompasses many hundreds of useful plastic related computer programs This book lists these programs ranging from operational training to product design to molding to marketing and explains them briefly but no program or series of programs can provide the details obtained and the extent of information contained in this single sourcebook *Aslib Book Guide* ,1994 **Food Contact Materials Analysis** Michele Suman, 2019-01-18 Mass spectrometric techniques have developed over recent years to offer ever increasing solutions to solving problems in food processing and packaging Even the smallest amount of contamination in food can cause a problem for food production companies thus they are keen to find speedy and efficient quality control methods

This book outlines how ingredients and their interrelationship with processing and packaging have developed with the exploitation of mass spectrometry and gives practical protocols to stakeholders showing the flexibility of this technique. With huge relevance worldwide, this book will appeal to food packaging scientists and mass spectrometry practitioners alike.

The Cumulative Book Index, 1995. A world list of books in the English language.

**Direct Analysis in Real Time Mass Spectrometry** Yiyang Dong, 2017-11-29. Clear, comprehensive and state-of-the-art, the groundbreaking book on the emerging technology of direct analysis in real time mass spectrometry. Written by a noted expert in the field, *Direct Analysis in Real Time Mass Spectrometry* offers a review of the background and the most recent developments in DART MS. Invented in 2005, DART MS offers a wide range of applications for solving numerous analytical problems in various environments, including food science, forensics, and clinical analysis. The text presents an introduction to the history of the technology and includes information on the theoretical background, for example, on the ionization mechanism. Chapters on sampling and coupling to different types of mass spectrometers are followed by a comprehensive discussion of a broad range of applications. Unlike most other ionization methods, DART does not require laborious sample preparation as ionization takes place directly on the sample surface. This makes the technique especially attractive for applications in forensics and food science. Comprehensive in scope, this vital text sets the standard on an important and emerging ionization technique. Thoroughly discusses all the relevant aspects from instrumentation to applications. Helps in solving numerous analytical problems in various applications, for example, food science, forensics, environmental, and clinical analysis. Covers mechanisms coupling to mass spectrometers and includes information on challenges and disadvantages of the technique. Academics, analytical chemists, pharmaceutical chemists, clinical chemists, forensic scientists, and others will find this illuminating text a must-have resource for understanding the most recent developments in the field.

**Mass Spectrometry of Polymers - New Techniques** Minna Hakkarainen, 2012-03-14. Emerging Mass Spectrometric Tools for Analysis of Polymers and Polymer Additives by Nina Aminlashgari and Minna Hakkarainen. Analysis of Polymer Additives and Impurities by Liquid Chromatography Mass Spectrometry and Capillary Electrophoresis Mass Spectrometry by Wolfgang Buchberger and Martin Stifter. Direct Insertion Probe Mass Spectrometry of Polymers by Jale Hacaloglu. Mass Spectrometric Characterization of Oligo and Polysaccharides and Their Derivatives by Petra Mischnick. Electrospray Ionization Mass Spectrometry for Molecular Level Understanding of Polymer Degradation by Minna Hakkarainen.

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