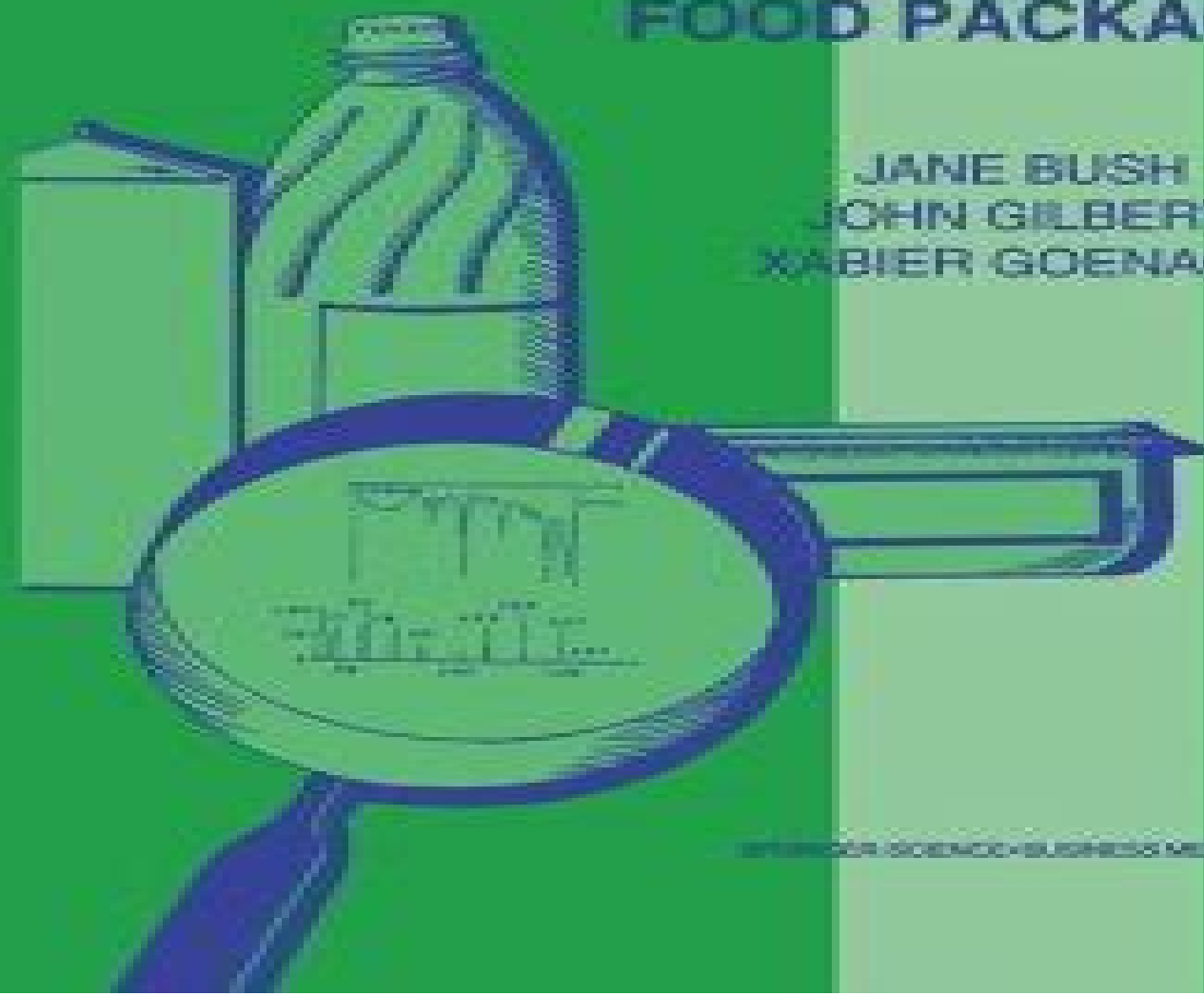


SPECTRA FOR THE IDENTIFICATION OF MONOMERS IN FOOD PACKAGING

JANE BUSH
JOHN GILBERT
XABIER GOENAGA



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Spectra For The Identification Of Monomers In Food Packaging

**U.S. Atomic Energy Commission.
Division of Isotopes Development**



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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 ¹H 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

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

Additives in Polymers Jan C. J. Bart, 2005-04-08 This industrially relevant resource covers all established and emerging analytical methods for the determination 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

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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 *Agrindex* ,1995 **149** [Anonymus AC01214082],1994 **Aslib Book Guide** ,1994

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