

Anna Wypych

# Plasticizers Database



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The World's most comprehensive  
database on plasticizers

# Plasticizers Database

**National Research Council, Commission  
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Environmental Studies and  
Toxicology, Committee on  
Toxicology, Subcommittee on Flame-  
Retardant Chemicals**

## **Plasticizers Database:**

**Plasticizers Database** Anna Wypych,2012-11-30 The plasticizer database was developed to contain data required in plasticizers application Attempts were made to include large number of plasticizers used in various sectors of industry to provide information for all users and to help in finding new solutions and formulations Plasticizers included in the database can be divided into two categories generic chemical name compounds and commercial plasticizers which are either mixtures of several components industrial grades of particular compound polymeric materials or products having unknown complex composition The database contains solvents representing all chemical groups of materials which considered as plasticizers In most cases plasticizers differ from solvents by boiling point which is above 250oC but some plasticizers are used as temporary plasticizers or are expect to react with other components of mixture These substances will not meet the boiling temperature standard but will still be included since they play role of plasticizers The large number of the plasticizers and the data fields makes this database the most comprehensive database on plasticizers ever available in any source Completely updated to reflect substantial changes in the plasticizer market Over 200 new plasticizers added Divided into sections for ease of use

**Plasticizers Database [electronic Resource]** Anna Wypych,2004 **Handbook of Plasticizers** George Wypych,2023-02-08 Handbook of Plasticizers Fourth Edition provides a comprehensive review of the current literature as well as cutting edge details on plasticizers obtained from renewable resources The book specifies the typical properties of plasticizers belonging to one of thirty one groups including expected properties in a given group The mechanisms of plasticizers plasticization production steps and their material behavior in plasticized systems are outlined along with theoretical background to help readers understand practical observations and methods of material improvement Other chapters cover the effects on the physical and mechanical properties of plasticized materials their use in polymers processing defects formation and more This is an essential professional reference providing R D scientists production chemists and engineers the information they need to avoid certain plasticizers in applications where they may cause health or material durability problems In addition the book shows readers how and where to use plasticizers more effectively Provides detailed coverage of thirty one groups of plasticizers covering their properties production processing applications health and environmental aspects Contains new material on odors in plastic materials and their removal Includes expanded coverage of plasticizers from renewable resources

**Thermodynamics, Solubility and Environmental Issues** Trevor Letcher,2007-04-20 Environmental problems are becoming an important aspect of our lives as industries grow apace with populations throughout the world Thermodynamics Solubility and Environmental Issues highlights some of the problems and shows how chemistry can help to reduce these them The unifying theme is Solubility the most basic and important of thermodynamic properties This informative book looks at the importance and applications of solubility and thermodynamics in understanding and in reducing chemical pollution in the environment Written by experts in their respective fields and

representing the latest findings in this very important and broad area A collection of twenty five chapters cover a wide range of topics including mining polymer manufacture and applications radioactive wastes industries in general agro chemicals soil pollution and biology together with the basic theory and recent developments in the modelling of environmental pollutants Latest research into solving some of the most important environmental problems Covering new technologies new chemicals and new processes eg biodegradable polymers ionic liquids and green chemistry Contains the basic theories and underlying importance of solubility

*Plasticizers Databook* Anna Wypych,2013-07-01 Plasticizer Databook contains data on selection of the most important plasticizers in use today The selection includes 375 generic and commercial plasticizers The generic plasticizers contain data for particular chemical compound from numerous sources and these generic plasticizer tables usually contain the most extensive information The commercial plasticizers include only data given by plasticizer manufacturers This allows comparison of properties of commercial plasticizers coming from different sources The databook was developed to contain data required in plasticizers application Attempts have been made to include plasticizers used in various sectors of industry to provide information for all users and to help in finding new solutions Plasticizers included in the book differ from solvents by boiling point which is above 250oC but some plasticizers are used as temporary plasticizers or are expected to react with other components of mixture These substances will not meet the boiling temperature criterion but will still be included since they play role of plasticizers Based on the biggest plasticizer database ever published Includes 375 generic and commercial plasticizers Divided into sections for ease of use

**Databook of Plasticizers** Anna Wypych,2023-02-01 Databook of Plasticizers Third Edition contains data on more than 300 of the most important generic and commercial plasticizers in use today The data comes from a range of sources beyond plasticizers manufacturers allowing for a detailed comparison of properties of different plasticizers Over 100 different data fields are provided from general information such as molecular structure and formula to physical properties health and safety information ecological properties and recommendations regarding appropriate use and performance of each plasticizer This data book is an essential resource for engineers technicians and materials scientists responsible for specifying a plasticizer The book has been updated to reflect the recent changes in plasticizer approvals for production of various materials including chloroparaffins refined oil derivatives and phalates and also includes data details on a range of new plasticizers that have recently gained market approval It serves as an ideal companion to the Handbook of Plasticizers Enables plastics practitioners to more efficiently select the correct plasticizer for a range of applications Includes 100 data fields for each plasticizer including physical properties health and safety information ecological properties and specific usage recommendations Contains data on the most important plasticizers currently in use both commercial products and the chemical compounds used for the manufacture of plasticizers

*Fluoropolymer Applications in the Chemical Processing Industries* Sina Ebnesajjad,Pradip R. Khaladkar,2004-12-02 This is a self contained collection of data and information on

applications of fluoropolymers components for corrosion control in chemical processing industries Due to their superior properties fluoropolymers have been rapidly replacing metal alloys for preserving the purity of processing streams in the chemical processing plastics food pharmaceutical semiconductor and pulp and paper industries **Databook of Plasticizers** Anna Wypych,2017-01-12 Databook of Plasticizers Second Edition contains data on the most important plasticizers in use today including over 375 generic and commercial plasticizers The data comes from a range of sources beyond plasticizers manufacturers allowing for a detailed comparison of properties between different plasticizers Over 100 different data fields are provided from general information such as molecular structure and formula to physical properties health and safety information ecological properties and recommendations regarding appropriate use and performance of each plasticizer The databook is an essential resource for engineers technicians and materials scientists responsible for specifying a plasticizer It provides trustworthy and up to date data that is applicable to a range of numerous application areas such as construction automotives food packaging and more Enables plastics practitioners to more efficiently select the correct plasticizer for a range of applications Includes 100 data fields for each plasticizer including physical properties health and safety information ecological properties and specific usage recommendations Contains data on the most important plasticizers currently in use both commercial products and the chemical compounds used for the manufacture of plasticizers

Handbook of Plasticizers George Wypych,2017-01-14 Handbook of Plasticizers Third Edition is an essential professional reference providing information that enables R D scientists production chemists and engineers the information they need to use plasticizers more effectively and to avoid certain plasticizers in applications where they may cause health or material durability problems Plasticizers are vital to the plastics industry particularly in improving the properties of materials such as PVC Plasticizers are commonly added to complex mixtures containing a variety of materials so successful incorporation requires a broad understanding of the mechanisms of plasticizer action and compatibility with different materials and blends There is a large selection of commercial plasticizers and various environmental issues which impact on selection decisions The book discusses new and historical approaches to the use of plasticizers explaining mechanisms of plasticizers action and their behavior in plasticized systems It goes into detail on the use of plasticizers in a range of specific polymers polymer blends and other industrial products This includes coverage of the impact of plasticizers on processing George Wypych provides the data and know how from the most recent sources and updated information required by engineers and scientists working in the plastics industry and the many industry sectors that use plastics in their products The book covers the uses advantages and disadvantages of plasticizers historical and theoretical background their effects on process conditions and health safety and environmental issues Enables materials scientists chemists and engineers to use plasticizers more effectively and avoid health and safety or performance risks Includes detailed coverage of the impact of plasticizers on polymers and processing methods Provides the broad background of information required to select the correct plasticizer for

any application Covers the uses advantages and disadvantages of plasticizers including historical and theoretical background

**Plasticizers Derived from Post-consumer PET** Ewa Langer, Krzysztof Bortel, Marta Lenartowicz-Klik, Sylwia Waskiewicz, 2019-11-03 Plasticizers Derived from Postconsumer PET Research Trends and Potential Applications presents a roadmap to the successful use of postconsumer PET to obtain plasticizers for later use a proposal which presents both economic and sustainability advantages Based on the results of the latest research into the development of chemical recycling techniques of PET waste this book describes techniques where the plasticizer obtained can be utilized for value addition in PVC and other polymers In addition the book provides basic introductory information on the role of plasticizers in the modification of polymers basic quality requirements and the latest trends in the synthesis and use of plasticizers in industry also presenting the available methods of PET recycling with particular emphasis on chemical recycling analysis of the PET market the availability of postconsumer PET and its value as a raw material for other products Based on the authors research the book discusses the use of postconsumer PET in the synthesis of monomeric and oligomeric plasticizers Synthesis conditions are shown in detail and the influence of the structure of synthesized softeners on their basic quality parameters are assessed and compared with selected commercially available products In the final sections the book covers the economic challenges and benefits of this process and its application to newly developed products Presents a step by step introduction to the methods of recycling PET into usable plasticizers Provides a viable actionable alternative to landfills for postconsumer PET enabling the recycling of more waste polymer and reducing the carbon footprint of PET Analyzes the economic benefits and challenges of this process Compares the quality of the output to commercially available products

**PVC Formulary** George Wypych, 2025-01-23 PVC Formulary Fourth Edition provides PVC manufacturers processors and users with key information on product development formulation additives and properties The book contains a trove of data and formulations that aids in the successful development of PVC products and evaluation of formulas that others use Commercial types and grades polymer forms and physical chemical properties of PVC are discussed in detail with all essential information required for the decision making process clearly presented The book contains over 600 formulations of products belonging to 23 categories that are derived from characteristic methods of production A broad selection of formulations is used in each category to determine the essential components of formulations used in a particular method of processing the most important parameters of successful products troubleshooting information and suggestions of further sources of information on the method of processing Provides a comprehensive and data rich guide to PVC and its additives enabling easier and more effective materials selection Includes over 600 formulations along with methods of processing and troubleshooting information Presents critical data on physical properties mechanical properties health and safety and environmental information for PVC and its products

**Corporate Performance and Managerial Ties in China** Chris Rowley, Ingyu Oh, 2021-11-29 In many countries business practitioners policy makers pundits and laypeople want to know

how strong China really is in business In the preceding century the overall tone of business comments on China was filled with fanfare and ovation However despite economic performance and seemingly inexorable growth some global data in areas such as labour productivity and digital competitiveness show a different and more nuanced picture This collection provides a multi level reality check on the Chinese economy firm performance and managerial ties Given that China must transform its economy and business that can pull global talent together to produce high end technologies for radically innovative products and services this book proposes two questions First can China restructure its economy from a low cost growth model to a high value added innovative model without incurring major structural inertia Second can Chinese firms outperform competitors in global high value markets without relying on state initiatives central funding mechanisms and public R D institutions This book was originally published as a special issue of the journal Asia Pacific Business Review

**PVC Degradation and Stabilization** George Wypych,2015-03-18 PVC stabilization the most important aspect of formulation and performance of this polymer is discussed in details This book contains all information required to design successful stabilization formula for any product made out of PVC Separate chapters review information on chemical structure PVC manufacturing technology morphology degradation by thermal energy UV gamma other forms of radiation mechanodegradation and chemical degradation The chapter on analytical methods used in studying of degradative and stabilization processes helps in establishing system of checking results of stabilization with different stabilizing systems Stabilization and stabilizers are discussed in full detail in the most important chapter of this book The final chapter contains information on the effects of PVC and its additives on health safety and environment This book contains analysis of all essential papers and patents published until recently on the above subject It either locates the answers to relevant questions and offers solutions or gives references in which such answers can be found PVC Degradation and Stabilization is must to have for chemists engineers scientists university teachers and students designers material scientists environmental chemists and lawyers who work with polyvinyl chloride and its additives or have any interest in these products This book is the one authoritative source on the subject A practical and up to date reference guide for engineers and scientists designing with PVC Covers thermal UV gamma radiation chemical and other forms of degradation Includes a critical discussion of the sustainability issues faced by PVC and its additives as well as health and safety concerns

**Toxicological Risks of Selected Flame-Retardant Chemicals** National Research Council,Commission on Life Sciences,Board on Environmental Studies and Toxicology,Committee on Toxicology,Subcommittee on Flame-Retardant Chemicals,2000-08-06 Ignition of upholstered furniture by small open flames from matches cigarette lighters and candles is one of the leading causes of residential fire deaths in the United States These fires accounted for about 16% of civilian fire deaths in 1996 On average each year since 1990 about 90 deaths primarily of children 440 injuries and property losses amounting to 50 million dollars have resulted from fires caused by the ignition of upholstered furniture by small open flames Certain commercial seating

products such as aircraft and bus seats are subject to flammability standards and sometimes incorporate FR treated upholstery cover materials but there is no federal government requirement for residential upholstered furniture and it is generally not treated with FR chemicals It is estimated that less than 0.2% of all U.S. residential upholstery fabric is treated with flame retardant FR chemicals The Consumer Product Safety Act of 1972 created the U.S. Consumer Product Safety Commission CPSC as an independent federal regulatory agency whose mission is to protect the public from unreasonable risks of injury and death associated with consumer products CPSC also administers the Flammable Fabrics Act under which it regulates flammability hazards and the Federal Hazardous Substances Act FHSA which regulates hazardous substances including chemicals In 1993 the National Association of State Fire Marshals petitioned CPSC to issue a performance based flammability standard for upholstered furniture to reduce the risk of residential fires The Commission granted that portion of the petition relating to small open flame ignition risks In response to concerns regarding the safety of FR chemicals Congress in the fiscal year 1999 appropriations report for CPSC requested that the National Research Council conduct an independent study of the health risks to consumers posed by exposure to FR chemicals that are likely to be used in residential upholstered furniture to meet a CPSC standard The National Research Council assigned the project to the Committee on Toxicology COT of the Commission on Life Sciences Board on Environmental Studies and Toxicology COT convened the Subcommittee on Flame Retardant Chemicals which prepared this report Subcommittee members were chosen for their recognized expertise in toxicology pharmacology epidemiology chemistry exposure assessment risk assessment and biostatistics Toxicological Risks of Selected Flame Retardant Chemicals is organized into 18 chapters and two appendices Chapter 2 describes the risk assessment process used by the subcommittee in determining the risk associated with potential exposure to the various FR chemicals Chapter 3 describes the method the subcommittee used to measure and estimate the intensity frequency extent and duration of human exposure to FR chemicals Chapters 4-19 provide the subcommittee's review and assessment of health risks posed by exposure to each of the 16 FR chemicals Data gaps and research needs are provided at the end of these chapters

**Gale Directory of Databases**, 2007 This is a guide to computer readable databases available online in CD ROM format or in other magnetic formats Details include database descriptions costs and whom to contact for purchase The material is indexed alphabetically and by subject vendor and producer

**High Energy Materials** Jai Prakash Agrawal, 2015-11-20 Authored by an insider with over 40 years of high energy materials HEMs experience in academia industry and defense organizations this handbook and ready reference covers all important HEMs from the 1950s to the present with their respective properties and intended purposes Written at an attainable level for professionals engineers and technicians alike the book provides a comprehensive view of the current status and suggests further directions for research and development An introductory chapter on the chemical and thermodynamic basics allows the reader to become acquainted with the fundamental features of explosives before moving on to the important safety aspects in processing

handling transportation and storage of high energy materials With its collation of results and formulation strategies hitherto scattered in the literature this should be on the shelf of every HEM researcher and developer **Physico-chemical Aspects of Textile Coloration** Stephen M. Burkinshaw,2016-02-08 The production of textile materials comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products As the great majority of such products are coloured predominantly using aqueous dyeing processes the coloration of textiles is a large scale global business in which complex procedures are used to apply different types of dye to the various types of textile material The development of such dyeing processes is the result of substantial research activity undertaken over many decades into the physico chemical aspects of dye adsorption and the establishment of dyeing theory which seeks to describe the mechanism by which dyes interact with textile fibres Physico Chemical Aspects of Textile Coloration provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural man made and synthetic fibres with the principal types of dye The book covers fundamental aspects of the physical and chemical structure of both fibres and dyes together with the structure and properties of water in relation to dyeing dyeing as an area of study as well as the terminology employed in dyeing technology and science contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level fundamental principles involved in dyeing theory as represented by the thermodynamics and kinetics of dye sorption detailed accounts of the mechanism of dyeing that applies to cotton and other cellulosic fibres polyester polyamide wool polyacrylonitrile and silk fibres non aqueous dyeing as represented by the use of air organic solvents and supercritical CO<sub>2</sub> fluid as alternatives to water as application medium The up to date text is supported by a large number of tables figures and illustrations as well as footnotes and widespread use of references to published work The book is essential reading for students teachers researchers and professionals involved in textile coloration **Drug Metabolism, Pharmacokinetics and Bioanalysis** Hye Suk Lee,Kwang-Hyeon Liu,2019-06-12 Drug metabolism pharmacokinetics and drug interaction studies have been extensively carried out in order to secure the druggability and safety of new chemical entities throughout the development of new drugs Recently drug metabolism and transport by phase II drug metabolizing enzymes and drug transporters respectively as well as phase I drug metabolizing enzymes have been studied A combination of biochemical advances in the function and regulation of drug metabolizing enzymes and automated analytical technologies are revolutionizing drug metabolism research There are also potential drug drug interactions with co administered drugs due to inhibition and or induction of drug metabolic enzymes and drug transporters In addition drug interaction studies have been actively performed to develop substrate cocktails that do not interfere with each other and a simultaneous analytical method of substrate drugs and their metabolites using a tandem mass spectrometer This Special Issue has the aim of highlighting current progress in drug metabolism pharmacokinetics drug interactions and bioanalysis **Chemical Alternatives Assessments** R M Harrison,R E

Hester,2013-04-30 Chemicals are an essential part of everyday life and all too often taken for granted yet often portrayed negatively in the media Concern over the deleterious effects of chemicals to the environment and human health have prompted governments in the developed world to establish screening programmes such as REACH and HPV Challenge to identify chemicals presenting the greatest degree of risk to health and the environment While such programmes identify chemicals with the greatest risk there is no ranking system for alternative chemicals which while being potentially less harmful still carry a degree of risk This volume of the Issues in Environmental Science and Technology series investigates how the alternatives can be assessed and their risk determined With contributions from experts across the globe this volume addresses some of the key concepts behind risk assessment of alternative chemicals Some of the current protocols adopted are discussed and several chapters explore the topic in the context of industry making this book essential reading for industrialists as well as academics postgraduate students and policy makers **Handbook of Vinyl Formulating** Richard F Grossman,2008-04-15 Here is your starting point and complete guide to polyvinyl chloride PVC formulation It covers the basics of vinyl formulation starting formulations for compounds and the latest compounding ingredients Since publication of the acclaimed first edition a standard reference used by vinyl technologists around the world there have been many new developments in vinyl formulation as well as new discoveries and insights into the underlying mechanisms It s all covered here in the second edition in one highly readable expertly organized volume

## Unveiling the Magic of Words: A Overview of "**Plasticizers Database**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Plasticizers Database**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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