

Eastman Chemical Company P O Box 431

**** The standard reference in the field of chemicals for commerce, cited in BCL3 and Sheehy. This extensively revised edition includes some 40,000 trade names and chemicals, of which about 18,000 entries are completely new; 13,500 entries that now contain CAS or EINECS numbers; and nearly 3,000 manufacturers, more than twice the number in the ninth edition. Entries give definitions, classification, chemical formulas/descriptions, functions/applications, and manufacturers.

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This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.

Monoclonal Antibodies: A Practical Approach covers the preparation, testing, derivation, and applications of monoclonal antibodies. New immunological techniques incorporating tried and tested methodologies are described, making the book of interest to established and inexperienced immunologists. Both the standard somatic hybridization technique and recombinant techniques, including the use of phage libraries, for the

preparation of rodent and human monoclonal antibodies are described. Protocols for both the small and large scale production are detailed, as well as purification and labelling (with both radioisotopes and non-radioisotopes) methods. The applications of monoclonal antibodies in immunoblotting, enzyme linked immunoassays, immunofluorescence, and FACS analysis are all covered in detail. Finally protocols are given for the use of monoclonal antibodies in rheumatoid arthritis, tissue typing, detecting DNA modified during chemotherapy, and in the clinical analysis of transplantation samples for malignancy. This book will therefore be an invaluable laboratory companion to anyone using monoclonal antibodies in their research.

Vols. for include annually an issue with title: Textile industries buyers guide.

Provides an overview of the family of polyester polymers which comprise an important group of plastics that span the range of commodity polymers to engineering resins. It describes the preparation, properties and applications of polyesters. Readers will also find details on polyester-based elastomers, biodegradable aliphatic polyester, liquid crystal polyesters and unsaturated polyesters for glass-reinforced composites. Presents an overview of the most recent developments. Explores synthesis, catalysts, processes, properties and applications. Looks at emerging polyester materials as well as

existing ones. Written by foremost experts from both academia and industry, ensuring that both fundamentals and practical applications are covered. This title was first published in 2001: In the early twentieth century the relevance of chirality to the pharmaceutical industry was established by the fact that one enantiomer of hyoscyamine possessed greater pharmacological activity than the other. Today, most new drugs and those under development consist of a single optically active isomer, and chirality is also becoming an issue for the agrochemical and other industries. Regulatory agencies throughout the world are currently reviewing the importance of chirality with regard to pharmaceutical and agrochemical products. New guidelines from such agencies have been key drivers for the focus on single enantiomer products in these industries. These scientific and regulatory developments have created the need for a guide for workers in the pharmaceutical and chemical industries seeking information on chiral molecules, processes, and commercially available chiral chemicals. Chiral Drugs is a comprehensive listing of over 2500 chiral drugs, classified by therapeutic class, and including structures and physical properties for each entry in the listing. Its companion volume, Chiral Intermediates, presents the same detailed information for over 4700 commercially available chiral chemicals. The 'Chiral Pool' of

readily available, relatively inexpensive chiral compounds has been expanding at a rapid rate as more and more products are produced in large quantities at economical prices. New developments in various technologies for isolating, preparing, and purifying chiral materials have greatly increased the opportunities for utilizing optically pure compounds in commercial applications. Novel techniques for classical resolution, new methodologies for developing selective enzymes for biocatalysis, advances in the application of microorganisms for chemical production, and continued progress in the area of asymmetric synthesis have all contributed to the growth of this field. Part One of each book contains four chapters which provide an introduction to topics relevant to the field of chiral chemistry and includes a brief overview of chirality, a short discussion on the current market drivers in the area of chiral chemistry, and a basic presentation of the various sources and methods for obtaining chiral compounds. Part Two presents entries for over 2500 chiral drugs, classified by therapeutic class. For each main entry, the chemical name and a list of trade names and synonyms is provided; the CAS Registry Number, the European Inventory of Existing Commercial Chemical Substances (EINECS) number, and the Merck Index (12th edition) number are given when available. The physical properties, including specific rotation, of each compound are

described and indicated applications are presented. The structure of nearly every compound is provided, and the manufacturers and suppliers of the compounds are also given. Indexes, including a master index of names and synonyms and an index of custom manufacturing services for production of chiral compounds, are appended. Chiral Drugs provides an introduction to the types of sources and methods currently in use for obtaining chiral molecules and is an invaluable resource for researchers in the pharmaceutical and biotechnology sectors as well as to those working in the basic biochemical sciences. Chiral Intermediates provides an introduction to the types of sources and methods currently in use for obtaining chiral molecules and is an invaluable resource for information on available chiral molecules. Chiral Intermediates and Chiral Drugs are the most comprehensive and detailed guides to chiral compounds available.

Describes nearly 4,000 currently available raw materials. Data represent selections from manufacturers' descriptions made at no cost to, nor influence from, makers or distributors of these materials.

Bringing together academic, industrial, and governmental researchers and developers, Catalysis of Organic Reactions comprises 57 peer-reviewed papers on the latest scientific developments in applied catalysis for organic reactions. The volume

describes the use of both heterogeneous and homogeneous catalyst systems and includes original research

Macrophages are an important part of the immune response and are characterized by their ability to phagocytose foreign matter. However the difficulties involved in macrophage isolation mean they are some of the body's least explored cells. *Macrophage Methodology* describes how to isolate moderate to high yields of viable cells from a variety of specific tissue sites under both normal and pathological conditions and then goes on to give protocols for macrophage purification. The third chapter covers techniques used to identify and measure endocytic and phagocytic capabilities using immunochemistry and fluorescent analysis. Chapter four identifies the key issues relating to the study of macrophages as antigen presenting cells and has protocols for the major assays used to measure antigen processing and presentation. Also covered are the theoretical and practical issues related to the processing and presentation of intracellular pathogens for which macrophages are the major host cell. The methods described for measuring macrophage secretory products concentrate on bioassays for molecules where no ELISA is available. The next two chapters cover measuring macrophage activity *in vitro* and *in vivo*. Finally methods are described for the analysis of gene expression in macrophages. A variety of

broad techniques have been brought together in one affordable volume to make *Macrophage Methodology* an essential buy for anyone studying macrophages.

Cytokine Molecular Biology concentrates on molecular biology techniques for the study of cytokines, cytokine receptors, and cytokine driven processes. Updated topics from the previous edition are: the cloning and expressing cytokine genes;; the detection of cytokine mRNA; receptor binding studies; the PC-specific phospholipase C and sphingomyelinases. In addition, new topics covered are the purification, sequencing, and synthesis of cytokines; studying cytokine gene polymorphisms; the use of proteomics in cytokine research; and the Jak/STAT and MAPK signalling pathways. Written by experts in the field, *Cytokine Molecular Biology* and *Cytokine Cellular Biology* form a comprehensive and essential guide to cytokine research.

This combination how-to guide and directory takes the reader step-by-step from the point of inspiration to the point of purchase. Written by Richard C. Levy, an inventor and lecturer who has licensed over 70 products in the US and worldwide, this sourcebook offers proven information that can help users take their ideas to the marketplace successfully. The introductory essay offers proven advice on how to patent and trademark a product and how to select a company to approach for licensing. Included are

more than 35 usable forms, sample agreements and declarations needed to file for patents and copyrights.

These books present about 300 up-to-date printing ink and overprint varnish formulations from manufacturers each. Types of inks covered include flexors, gravures, heatsets, offsets, quicksets, sheetfeds, lithographics, screen-process, and letterpress inks. Overprint varnish formulations have such major properties as: high solids, high slip, thermosetting, heat resistance, oil resistance, high gloss, scuff resistance.

A comprehensive collection of professionally validated comparative data, on the most widely used plastics materials. The Plastics Compendium covers thermoplastics, thermosets, composites and thermoplastic elastomers. Volume 1 of The Plastics Compendium contains clearly presented data on 351 generic and modified material types, in the following main sections property and commercial data sheets, an alphabetical trade name index, a listing of suppliers' (or their agents'), and a detailed alphabetical index to the materials for which data are listed.

Covers all the principal spectroscopic and structural methods for investigating protein-ligand interactions. A ligand is an atom, molecule or ion that can bind to a specific site on a protein and the interactions between any protein and its ligands are fundamental and essential for the protein to function properly.

This volume in the Cosmetic Science and Technology series covers the important rheological aspects of cosmetic and toiletry formulations, including theoretical physical chemistry, instrumentation and measuring techniques, raw materials and

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stability predictions. The work discusses the specific rheological requirements of nail polish, antiperspirants and deodorants, dentifrices, hair care products, creams and lotions.

Cosmetic and Toiletry Formulations, Second Edition, Volume 2, contains more than 1,900 cosmetic and toiletry formulations, based on information received from numerous industrial companies and other organizations. The data represent selections from manufacturers' descriptions made at no cost to, nor influence from, the makers or distributors of these materials. All of the trademarked raw materials listed are believed to be available, which will be of interest to readers concerned with raw material discontinuances. Each formulation in the book is identified by a description of end use. The formulations include the following as available, in the manufacturer's own words: a listing of each raw material contained; the percent by weight of each raw material; suggested formulation procedure; and the formula source, which is the company or organization that supplied the formula.

FROM THE FOREWORD Dr. Gruenwald has indicated the desirable properties of polymerics for differing applications; thus, his text is especially useful for polymer chemists who must "tailor" plastic materials for specific groups of applications. Engineers in extruding and calendering film and sheet will benefit from the intimate relationships elucidated between processing parameters imposed upon stocks employed in thermoforming and the products thereof. Mold designers are provided with a complete guide that will enable them to avoid the less obvious pitfalls and wasted effort so often experienced in the evolution of molds for

(especially) complex parts.. Quite likely, Dr. Gruenwald's suggestions will lead to considerable benefits to those who read and practice by this remarkable exposition of thermoforming technology. Robert K. Jordan Director-Metalliding Institute, Director-Engineering Research Institute, Scientist in Residence, Gannon University
An epitope is a structural region of an antigen that is recognized by an antibody and is therefore central to the immune response. Epitope Mapping describes the various methods for their location and characterization. This process is an essential part of developing non-pathogenic vaccines.

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