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Comprehensive Organic Chemistry Experiments for the Laboratory Classroom-Carlos A M Afonso 2020-08-28 This expansive and practical textbook contains organic chemistry experiments for teaching in the laboratory at the undergraduate level covering a range of functional group transformations and key organic reactions. The editorial team have collected contributions from around the world and standardized them for publication. Each experiment will explore a modern chemistry scenario, such as: sustainable chemistry; application in the pharmaceutical industry; catalysis and material sciences, to name a few. All the experiments will be complemented with a set of questions to challenge the students and a section for the instructors, concerning the results obtained and advice on getting the best outcome from the experiment. A section covering practical aspects with tips and advice for the instructors, together with the results obtained in the laboratory by students, has been compiled for each experiment. Targeted at professors and lecturers in chemistry, this useful text will provide up to date experiments putting the science into context for the students.

Systematic Lab Experiments in Organic Chemistry-Arun Sethi 2006-01-01 Basically The Book Has Been Written As A Textbook With An Intention To Serve The Students At The Graduate And Postgraduate Level. The Subject Matter Is Based On The New Model Curriculum Recommended By The University Grants Commission For All Indian Universities. The Book Provides An Exhaustive List Of Organic Compounds, Methods Of Its Identification, Its Derivatives Every Information Incorporated In Consolidated Form. Exercises Included In The Book Not Only Describe Different Methods/Techniques Of Preparation But Also Explain The Theoretical Background Of These Reactions. It Also Describes Different Methods Of Isolation Of Some Important Class Of Compounds. This Book Promotes Self Reliance Since It Is In Itself Complete Requiring No Reference To Other Texts.

Applied Organic Chemistry-Surya K. De 2020-12-07 An indispensable guide for all synthetic chemists who want to learn about the most relevant reactions and reagents employed to synthesize important heterocycles and drugs! The synthesis of natural products, bioactive compounds, pharmaceuticals, and drugs is of fundamental interest in modern organic chemistry. New reagents and reaction methods towards these molecules are being constantly developed. By understanding the mechanisms involved and scope and limitations of each reaction applied, organic chemists can further improve existing reaction protocols and develop novel efficient synthetic routes towards frequently used drugs, such as Aspirin or Penicillin. Applied Organic Chemistry provides a summary of important (name) reactions and reagents applied in modern organic chemistry and drug synthesis. It covers rearrangement, condensation, olefination, metathesis, aromatic electrophilic substitutions, Pd-catalyzed C-C bond forming reactions, multi-component reactions, as well as oxidations and reductions. Each chapter is clearly structured, providing valuable information on reaction details, step-by-step mechanism, experimental procedures, applications, and (patent) references. By providing mechanistic information and representative experimental procedures, this book is an indispensable guide for researchers and professionals in organic chemistry, natural product synthesis, pharmaceutical, and medicinal chemistry, as well as post-graduates preparing themselves for a job in the pharmaceutical industry. Hot Topic: Reviews important classes of organic reactions (incl. name reactions) and reagents in medicinal chemistry. Useful: Provides information

on reaction details, common reagents, and functional group transformations used to synthesize natural products, bioactive compounds, drugs, and pharmaceuticals, e.g. Aspirin, Penicillin. Unique: For every reaction the mechanism is explained step by step, and representative experimental procedures are given, unlike most books in this area. User-friendly: Chapters are clearly structured making it easy for the reader to compare different reactions. Applied Organic Chemistry is an indispensable guide for researchers and professionals in organic chemistry, natural product synthesis, pharmaceutical, and medicinal chemistry, as well as post-graduates preparing themselves for a job in the pharmaceutical industry.

Handbook of Synthetic Organic Chemistry-Michael C. Pirrung 2016-08-30 Handbook of Synthetic Organic Chemistry, Second Edition updates and expands the author's popular 2007 work, Synthetic Organic Chemist's Companion. This new handbook provides valuable, practical guidance; incorporates corrections, and includes coverage on important topics, such as lyophilization, crystallization, precipitation, HPLC detectors, gases, and microwave reactions. The book maintains the useful organization of the author's earlier work, beginning with a basic overview and walking through every practical step of the process of organic synthesis, from reagents, solvents, and temperature control, to documentation, implementation, purification, and analytical methods for the product. From planning and setting up reactions, to recording them, the book provides insight and valuable guidance into every step of the process. Practical guidance for planning, working up, documenting, analyzing, and improving reactions in synthetic organic chemistry Multi-Step Organic Synthesis-Nicolas Bogliotti 2017-12-04 Combining theoretical knowledge of synthetic transformations, practical considerations, structural elucidation by interpretation of spectroscopic data as well as rationalization of structure-property relations, this textbook presents a series of 16 independent exercises, including detailed descriptions of experimental procedures, questions, and answers. The experimental descriptions are very helpful for guiding less experienced students towards a better understanding of practical aspects in synthetic organic chemistry, while the broad scope of the questions and answers is excellent for learning purposes. The exercises are based on published research articles, adapted for didactic purposes, and will thus inspire students by way of having to solve real-life problems in chemistry. A must-have for MSc and PhD students as well as postdocs in organic chemistry and related disciplines, and lecturers and organizers of lab courses in organic chemistry.

(WCS)Experimental Organic Chemistry-Ralph N. Salvatore 2005-09-01

Modern Projects and Experiments in Organic Chemistry-Jerry R. Mohrig 2003 The ManualsModern Projects and Experiments in Organic Chemistry helps instructors turn their organic chemistry laboratories into places of discovery and critical thinking. In addition to traditional experiments, the manual offers a variety of inquiry-based experiments and multi-week projects, giving students a better understanding of how lab work is actually accomplished. Instead of simply following directions, students learn how to investigate the experimental process itself. The Program Modern Projects and Experiments in Organic Chemistry is designed to provide the utmost in quality content, student accessibility, and instructor flexibility. The project consists of: 1) A laboratory manual in two versions: —miniscale and standard-taper microscale equipment (0-7167-9779-8) —miniscale and Williamson microscale equipment (0-7167-3921-6) 2) Custom publishing option. All experiments are available through Freeman's custom publishing service at <http://custompub.whfreeman.com>. Instructors can use this service to create their own customized lab manual, even including their own material. 3) Techniques in Organic Chemistry. This concise yet comprehensive companion volume provides students with detailed descriptions of important techniques. Handbook of Synthetic Organic Chemistry-Michael C. Pirrung 2016-08-30 Handbook of Synthetic Organic Chemistry, Second Edition updates and expands the author's popular 2007 work, Synthetic Organic Chemist's Companion. This new handbook provides valuable, practical guidance; incorporates corrections, and includes coverage on important topics, such as lyophilization, crystallization, precipitation, HPLC detectors, gases, and microwave reactions. The book maintains the useful organization of the author's earlier work, beginning with a basic overview and walking through every practical step of the process of organic synthesis, from reagents, solvents, and temperature control, to documentation, implementation, purification, and analytical methods for the product. From planning and setting up reactions, to recording them, the book provides insight and valuable guidance into every step of the process. Practical guidance for planning, working up, documenting, analyzing, and improving reactions in synthetic organic chemistry EXPERIMENTAL ORGANIC CHEMISTRY-SONIA RATNANI 2012-06-12 Primarily intended for the undergraduate students of science, the book deals with the practical aspects of organic chemistry and discusses how experiments should be done in the laboratory. The book introduces the various types of components used in laboratories and describes basic techniques used for purification. It elaborates different methods of identification of organic compounds, their preparation, and analysis. In addition, it

emphasizes qualitative analysis of organic compounds. The book contains essential experiments done in an organic lab and also explains the theoretical background of reactions involved. This book is an attempt to provide students with the often used methods in an easy to understand manner, including explanations of theory, procedures and interpretations of results of the experiments. Besides undergraduate students of science, this book is also useful for the postgraduate students of chemistry. KEY FEATURES : Includes reaction mechanism of each reaction Describes in Appendices safety measures to be taken in laboratory and how to prepare chemical reagents Contains self assessment questions at the end of each chapter.

Advances in Synthetic Organic Chemistry and Methods Reported in US Patents-Thomas F. DeRosa 2006-03-21 Advances in Synthetic Organic Chemistry and Methods Reported in US Patents provides synthetic guidelines for preparing current and commercially significant organic compounds, derivatives, and intermediates as reported in issued US Patents. Industries surveyed include agrochemical, cosmetics and personal care products. Each entry contains extensive information such as explicit laboratory directions for preparing all chemical intermediates and characterization data. Furthermore, product optimization studies, industrial preparation, and new synthetic methods have been included for selected entries, as well as projected research directions for future product development. In Advances in Synthetic Organic Chemistry and Methods Reported in US Patents the author's practical approach enables readers to identify research and market trends, and stay up-to-date on current developments in the field. Provides synthetic guidelines for preparing current and commercially significant organic compounds, derivatives, and intermediates as reported in issued US Patents Identifies product development trends to help determine research areas Elucidates use of the US Patent and Trademark Office database

Experimental Organic Chemistry: A Miniscale & Microscale Approach-John C. Gilbert 2015-01-01 Perform chemistry experiments with skill and confidence in your organic chemistry lab course with this easy-to-understand lab manual. EXPERIMENTAL ORGANIC CHEMISTRY: A MINISCALE AND MICROSCALE APPROACH, Sixth Edition first covers equipment, record keeping, and safety in the laboratory, then walks you step by step through the laboratory techniques you'll need to perform all experiments. Individual chapters show you how to use the techniques to synthesize compounds and analyze their properties, complete multi-step syntheses of organic compounds, and solve structures of unknown compounds. New experiments in Chapter 17 and 18 demonstrate the potential of chiral agents in fostering enantioselectivity and of performing solvent-free reactions. A bioorganic experiment in Chapter 24 gives you an opportunity to accomplish a mechanistically interesting and synthetically important coupling of two α -amino acids to produce a dipeptide. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Comprehensive Organic Chemistry Experiments for the Laboratory Classroom-Carlos A M Afonso 2020-08-28 This expansive and practical textbook contains organic chemistry experiments for teaching in the laboratory at the undergraduate level covering a range of functional group transformations and key organic reactions. The editorial team have collected contributions from around the world and standardized them for publication. Each experiment will explore a modern chemistry scenario, such as: sustainable chemistry; application in the pharmaceutical industry; catalysis and material sciences, to name a few. All the experiments will be complemented with a set of questions to challenge the students and a section for the instructors, concerning the results obtained and advice on getting the best outcome from the experiment. A section covering practical aspects with tips and advice for the instructors, together with the results obtained in the laboratory by students, has been compiled for each experiment. Targeted at professors and lecturers in chemistry, this useful text will provide up to date experiments putting the science into context for the students.

Experimental Organic Chemistry-Augustus Price West 1921

Green Chemistry Experiments in Undergraduate Laboratories-Jodie T. Fahey 2018-02-02 Since the introduction of green chemistry principles in industrial processes, interest has continued to grow and green chemistry has started to take roots in educational laboratories of all disciplines of chemistry. Entire courses centered around green chemistry are becoming more prevalent. By introducing students to green chemistry at a collegiate level, they will better be prepared for industry, graduate schools, and also have a better appreciation for the environment. This book includes experiments that cover a range of green chemistry principles, particularly in the field of organic chemistry. Green chemistry, as we know it today, revolves around a set of twelve principles that were outlined 1998. The experiments presented in this text utilize many of the 12 Principles of Green Chemistry. Each chapter presents an experiment that utilizes at least one, if not more, of these principles. This book is targeted for any professor who would like to introduce green or "greener" laboratory experiments for their students in any chemistry course regardless

of level. The book is designed to introduce students to the ideas, principles, and benefits of green chemistry and inspire educators to adopt more green chemistry principles in their course.

Mechanochemical Organic Synthesis-Davor Margetic 2016-04-23 Mechanochemical Organic Synthesis is a comprehensive reference that not only synthesizes the current literature but also offers practical protocols that industrial and academic scientists can immediately put to use in their daily work. Increasing interest in green chemistry has led to the development of numerous environmentally-friendly methodologies for the synthesis of organic molecules of interest. Amongst the green methodologies drawing attention, mechanochemistry is emerging as a promising method to circumvent the use of toxic solvents and reagents as well as to increase energy efficiency. The development of synthetic strategies that require less, or the minimal, amount of energy to carry out a specific reaction with optimum productivity is of vital importance for large-scale industrial production. Experimental procedures at room temperature are the mildest reaction conditions (essentially required for many temperature-sensitive organic substrates as a key step in multi-step sequence reactions) and are the core of mechanochemical organic synthesis. This green synthetic method is now emerging in a very progressive manner and until now, there is no book that reviews the recent developments in this area. Features cutting-edge research in the field of mechanochemical organic synthesis for more sustainable reactions Integrates advances in green chemistry research into industrial applications and process development Focuses on designing techniques in organic synthesis directed toward mild reaction conditions Includes global coverage of mechanochemical synthetic protocols for the generation of organic compounds

Design and Optimization in Organic Synthesis-Rolf Carlson 2005-04-08 Revised, and updated Design and Optimization in Organic Synthesis presents strategies to explore experimental conditions and methodologies for systematic studies of entire reaction systems (substrates, reagent(s), catalyst(s), and solvents). Chemical phenomena are not usually the result of a single factor and this book describes how statistically designed methods can be used to analyse and evaluate synthetic procedures. The methodology is based on multivariate statistical techniques. The accompanying CD contains data tables and programmes. This book is essential reading for anyone working in process design and development in fine chemicals or the pharmaceutical industry, and is suitable for those with no experience in the field. * Contains recalculated models and redrawn figures, as well as new chapters on for example, the design of combinatorial libraries * Presents strategies to explore experimental conditions and methodologies * Enables the analysis and prediction of the best synthetic procedures

Experiments in Organic Chemistry-Louis Frederick Fieser 1935

Experimental Organic Chemistry-John C. Gilbert 2006 This proven and well-tested laboratory manual for organic chemistry students contains procedures for both miniscale (also known as small scale) and microscale users. This lab manual gives students all the necessary background to enter the laboratory with the knowledge to perform the experiments with confidence. For the microscale labs, experiments were chosen to provide tangible quantities of material, which can then be analyzed. Chapters 1-2 introduce students to the equipment, record keeping, and safety of the laboratory. Chapters 3-6, and 8 are designed to introduce students to laboratory techniques needed to perform all experiments. In Chapters 7 and 9 through 20, students are required to use the techniques to synthesize compounds and analyze their properties. In Chapter 21, students are introduced to multi-step syntheses of organic compounds, a practice well known in chemical industry. In Chapter 23, students are asked to solve structures of unknown compounds. The new chapter 24 introduces a meaningful experiment into the textbook that reflects the increasing emphasis on bioorganic chemistry in the sophomore-level organic lecture course. This experiment not only gives students the opportunity to accomplish a mechanistically interesting and synthetically important coupling of two α -amino acids to produce a dipeptide but also provides valuable experience regarding the role of protecting groups in effecting synthetic transformations with multiple functionalized molecules.

Synthetic Organic Photochemistry-Axel G. Griesbeck 2004-11-30 With contributions from 24 international authorities, Synthetic Organic Photochemistry offers a leading-edge presentation of the most recent and in-demand applications of photochemical methodologies. Outlining a wide assortment of reaction types entailing cycloadditions, cyclizations, isomerizations, rearrangements, and other organic syntheses, this

Practical Synthetic Organic Chemistry-Stéphane Caron 2020-01-31 This book is a hands-on guide for the organic chemist. Focusing on the most reliable and useful reactions, the chapter authors provide the information necessary for a chemist to strategically plan a synthesis, as well as repeat the procedures in the laboratory. Consolidates all the key advances/concepts in one book, covering the most important reactions in organic chemistry, including substitutions, additions, eliminations, rearrangements,

oxidations, reductions Highlights the most important reactions, addressing basic principles, advantages/disadvantages of the methodology, mechanism, and techniques for achieving laboratory success Features new content on recent advances in CH activation, photoredox and electrochemistry, continuous chemistry, and application of biocatalysis in synthesis Revamps chapters to include new and additional examples of chemistry that have been demonstrated at a practical scale

Experimental Methods in Organic Fluorine Chemistry-Tomoya Kitazume 2019-06-14 In the fields of biologically active materials and functional materials, fluorinated organic materials are becoming a focus of significant interest. Over the past decade synthetic methodologies and reagents in fluorine chemistry have been developed, especially stereocontrolled synthetic methods, enzymatic resolution to synthesize enantiomers, fluoromethylated reagents, and fluorination reagents. These methods have contributed to the opening of new pathways for fluorinated materials. However, few fluorinated materials have been put to commercial use. Furthermore, there remain problems to be solved, such as the handling of the materials, availability of reagents and selectivity (stereo-, regio-, and/or chemoselectivity). Research chemists, technical engineers, and graduate students in all branches of chemistry, pharmaceuticals, and material science interested in fluorinated materials need to know detailed experimental procedures of how to synthesize the target fluorinated materials. This volume summarizes the chemical and microbial methods for obtaining functionalized fluorinated materials for use as building blocks; detailed experimental methods (reaction conditions, solvent, temperature, handling techniques, etc.); and the stereoview (possible absolute configuration) of the structures with spectral data. Mono-, di-, tri-, and polyfluorinated materials derived from fluorinating agents, fluoromethylated reagents and building blocks are summarized. A chemical name index, molecular formula index, and reagent index are also included. The publication of this monograph will provide access to the enormous possibilities in fluorine chemistry, biological material chemistry, and functionalized material chemistry.

Modern Experimental Organic Chemistry-Derry L. Fishel 1971

Reactions and Syntheses-Lutz F. Tietze 2015-02-23 The second edition of this classic text book has been completely revised, updated, and extended to include chapters on biomimetic amination reactions, Wacker oxidation, and useful domino reactions. The first-class author team with long-standing experience in practical courses on organic chemistry covers a multitude of preparative procedures of reaction types and compound classes indispensable in modern organic synthesis. Throughout, the experiments are accompanied by the theoretical and mechanistic fundamentals, while the clearly structured sub-chapters provide concise background information, retrosynthetic analysis, information on isolation and purification, analytical data as well as current literature citations. Finally, in each case the synthesis is labeled with one of three levels of difficulty. An indispensable manual for students and lecturers in chemistry, organic chemists, as well as lab technicians and chemists in the pharmaceutical and agrochemical industries.

Modern Experimental Organic Chemistry-John A. Miller 1982

Green Organic Chemistry in Lecture and Laboratory-Andrew P. Dicks 2016-04-19 The last decade has seen a huge interest in green organic chemistry, particularly as chemical educators look to "green" their undergraduate curricula. Detailing published laboratory experiments and proven case studies, this book discusses concrete examples of green organic chemistry teaching approaches from both lecture/seminar and practical perspective

Experimental Chemistry for Junior Students: Chemistry of carbon compounds, or Organic chemistry. 1887-James Emerson Reynolds 1887

Understanding the Principles of Organic Chemistry: A Laboratory Course, Reprint-Sтивен F. Pedersen 2010-04-27 Class-tested by thousands of students and using simple equipment and green chemistry ideas, UNDERSTANDING THE PRINCIPLES OF ORGANIC CHEMISTRY: A LABORATORY COURSE includes 36 experiments that introduce traditional, as well as recently developed synthetic methods. Offering up-to-date and novel experiments not found in other lab manuals, this innovative book focuses on safety, gives students practice in the basic techniques used in the organic lab, and includes microscale experiments, many drawn from the recent literature. An Online Instructor's Manual available on the book's instructor's companion website includes helpful information, including instructors' notes, pre-lab meeting notes, experiment completion times, answers to end-of-experiment questions, video clips of techniques, and more. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Experimental Physical Chemistry-Arthur Halpern 2006-06-30 'Experimental Physical Chemistry' includes complete lists of necessary materials, detailed background material for each experiment, and relevant sections on measurements and error analysis.

Comprehensive Organic Synthesis- 2014-02-14 The second edition of Comprehensive Organic Synthesis—winner of the 2015 PROSE Award for Multivolume Reference/Science from the Association of American Publishers—builds upon the highly respected first edition in drawing together the new common themes that underlie the many disparate areas of organic chemistry. These themes support effective and efficient synthetic strategies, thus providing a comprehensive overview of this important discipline. Fully revised and updated, this new set forms an essential reference work for all those seeking information on the solution of synthetic problems, whether they are experienced practitioners or chemists whose major interests lie outside organic synthesis. In addition, synthetic chemists requiring the essential facts in new areas, as well as students completely new to the field, will find Comprehensive Organic Synthesis, Second Edition an invaluable source, providing an authoritative overview of core concepts. Winner of the 2015 PROSE Award for Multivolume Reference/Science from the Association of American Publishers Contains more than 170 articles across nine volumes, including detailed analysis of core topics such as bonds, oxidation, and reduction Includes more than 10,000 schemes and images Fully revised and updated; important growth areas—including combinatorial chemistry, new technological, industrial, and green chemistry developments—are covered extensively

Experiment in Organic Chemistry & Organic Synthesis-Dalgen Chin 1962

Experimental Organic Chemistry-H. Dupont Durst 1987

Polymer Science from 1935-1953-Gary Patterson 2014-06-30 This sequel to A Prehistory of Polymer Science begins with the Faraday Discussion of 1935 on Polymerization. Patterson then examines the remarkable rise and establishment of polymer science after 1935 from the perspective of the emergence of strong intellectual leaders. While enough biographical detail is presented to gain an appreciation for the role played by each leader, the emphasis of this volume is on the key concepts associated with each individual and how the community embraced these leaders.

The Journal of Experimental Medicine- 1916

Laboratory Experiments in Organic Chemistry-Jerry R. Mohrig 1979

Experiment Station Record-United States. Office of Experiment Stations 1919

Computational Organic Chemistry-Steven M. Bachrach 2014-03-03 The Second Edition demonstrates how computational chemistry continues to shed new light on organic chemistry The Second Edition of author Steven Bachrach's highly acclaimed Computational Organic Chemistry reflects the tremendous advances in computational methods since the publication of the First Edition, explaining how these advances have shaped our current understanding of organic chemistry. Readers familiar with the First Edition will discover new and revised material in all chapters, including new case studies and examples. There's also a new chapter dedicated to computational enzymology that demonstrates how principles of quantum mechanics applied to organic reactions can be extended to biological systems. Computational Organic Chemistry covers a broad range of problems and challenges in organic chemistry where computational chemistry has played a significant role in developing new theories or where it has provided additional evidence to support experimentally derived insights. Readers do not have to be experts in quantum mechanics. The first chapter of the book introduces all of the major theoretical concepts and definitions of quantum mechanics followed by a chapter dedicated to computed spectral properties and structure identification. Next, the book covers: Fundamentals of organic chemistry Pericyclic reactions Diradicals and carbenes Organic reactions of anions Solution-phase organic chemistry Organic reaction dynamics The final chapter offers new computational approaches to understand enzymes. The book features interviews with preeminent computational chemists, underscoring the role of collaboration in developing new science. Three of these interviews are new to this edition. Readers interested in exploring individual topics in greater depth should turn to the book's ancillary website www.comporchem.com, which offers updates and supporting information. Plus, every cited article that is available in electronic form is listed with a link to the article.

From Classical to Modern Chemistry-Royal Society of Chemistry (Great Britain) 2002 This lavishly illustrated book provides a focal point for any historian of chemistry or chemist with an interest in this fascinating topic.

Chromium Oxidations in Organic Chemistry-G. Cainelli 2012-12-06 Chromium oxidation, well known and widely explored in organic chemistry since the very beginning of this science, is a topic of current interest for the organic chemist as evidenced by the continuous development of new techniques and procedures reported in the literature. Chromium oxidation is a simple process which can be easily performed in the laboratory and scaled up in industry as well. Although almost every oxidizable organic functional group may undergo chromium oxidation, the most important fields of application are the oxidation of alcohols,

allylic and benzylic oxidation, oxidative degradation and oxidation of some organometallic compounds. A high degree of selectivity is often possible by choosing the most suitable reagent among those several ones now available. This book takes account of the various functional groups that undergo oxidation and the entire literature up to 1982. It has been written in the hope to help the synthetic organic chemist in his experimental work. For this purpose a number of tables comprising yields and references have been included; detailed descriptions of typical procedures are meant to show the experimental conditions and the scope of the reactions. We wish to thank Dr. Mario Orena for his valuable scientific and technical assistance and Prof. Bruno Camerino, who read the entire manuscript and corrected many of the errors. Bologna, February 1984 Gianfranco Cainelli Giuliana Cardillo Table of Contents I. Introduction
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Experimental Methods in Organic Chemistry-James Alexander Moore 1982
Experiment station r- 1919

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