

“Solid-Phase Organic Syntheses: Solid-Phase Palladium Chemistry”

Edited by Peter J. H. Scott (University of Michigan, USA), Wiley Series on Solid-Phase Organic Syntheses, Vol. 2, John Wiley & Sons, Inc, Hoboken, New Jersey, USA, 2012, 184 pages, ISBN: 978-0-470-56665-7, £100.00, €120.00, US\$150.00

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Reviewed by David W. Knight

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The purpose of this relatively small volume is to provide methods for carrying out representative examples of palladium-catalysed couplings on a solid support, essentially in the style of *Organic Syntheses* (1). There are contributions from both academic and industrial groups. This is a somewhat specialised area of synthesis, requiring techniques additional to those employed in ‘normal’ organic synthesis. Solid-phase synthesis has a number of pros and cons. The idea of immobilising part of, say, a drug candidate to a solid support on quite a large scale and then coupling a series of ‘second’ parts of the drug target to samples of the initial species can be a very convenient and attractive approach to library synthesis and one which is potentially very efficient and rapid. Alternatively, a diverse series of precursors can be built up on a solid support then cyclised using palladium catalysis. On the downside, it is often rather time-consuming to follow the progress of such syntheses and to manage the inevitable differences in reaction rates between a diverse range of reactants.

Hence, the purpose of this book is to provide experimental guidance across a range of palladium-catalysed coupling reactions of the types which have made such an important impact on organic synthesis in general. These reactions represent a true paradigm shift in the way that organic synthesis is currently viewed and executed.

Palladium-Catalysed Solid-Phase Organic Synthesis

A clear introduction by Carmen Gil (Instituto de Química Médica, Madrid, Spain) delineates the scope of the book. Following a generalised introduction to solid-phase organic synthesis (SPOS), individual representative examples are given to define the Heck, Suzuki, Stille and Sonogashira reactions. Illustrative of this and the style of diagrams in the book are the three diverse routes to indoles developed by Kazuo Yamazaki, Yosuke Nakamura and Yoshinori Kondo

Solid Phase Organic Syntheses

Anthony W. Czarnik



Solid Phase Organic Syntheses:

Solid-Phase Organic Syntheses, Volume 1 Anthony W. Czarnik, 2004-04-07 The rapid expansion of combinatorial chemistry has renewed interest in solid phase organic synthesis a method that lends itself well to creating and screening large numbers of lead compounds Solid Phase Organic Syntheses Volume 1 is the first volume in a series that will be updated annually filling a gap in the existing chemical literature Providing information previously unavailable from a single resource this series is dedicated to providing researchers in the field with validated and tested methods for the solid phase synthesis of interesting and biologically relevant molecules Solid phase methods will virtually always be invented for application in combinatorial organic synthesis To meet these specific needs Solid Phase Organic Syntheses Volume 1 focuses on a single type of synthetic transformation accomplished on solid support and indicates how procedures are optimized to work with a structurally wide variety of reagents Written by recognized leaders in the field who review and test all chemical protocols before publication organic transformations are organized by type of compound synthesized and reaction type For the first time experimental details for proven solid phase synthetic molecules are collected in a single invaluable resource Solid Phase Organic Syntheses Volume 1 provides combinatorial chemists and researchers in organic chemistry and medicinal chemistry with the tools and descriptive protocols to achieve syntheses of desired compounds using a variety of solid supports and reagents

Solid-Phase Organic Synthesis Patrick H. Toy, Yulin Lam, 2012-01-10 Presents both the fundamental concepts and the most recent applications in solid phase organic synthesis With its emphasis on basic concepts Solid Phase Organic Synthesis guides readers through all the steps needed to design and perform successful solid phase organic syntheses The authors focus on the fundamentals of heterogeneous supports in the synthesis of organic molecules explaining the use of a solid material to facilitate organic synthesis This comprehensive text not only presents the fundamentals but also reviews the most recent research findings and applications offering readers everything needed to conduct their own state of the art science experiments Featuring chapters written by leading researchers in the field Solid Phase Organic Synthesis is divided into two parts Part One Concepts and Strategies discusses the linker groups used to attach the synthesis substrate to the solid support colorimetric tests to identify the presence of functional groups combinatorial synthesis and diversity oriented synthesis Readers will discover how solid phase synthesis is currently used to facilitate the discovery of new molecular functionality The final chapter discusses how using a support can change or increase reaction selectivity Part Two Applications presents examples of the solid phase synthesis of various classes of organic molecules Chapters explore general asymmetric synthesis on a support strategies for heterocyclic synthesis and synthesis of radioactive organic molecules dyes dendrimers and oligosaccharides Each chapter ends with a set of conclusions that underscore the key concepts and methods References in each chapter enable readers to investigate any topic in greater depth With its presentation of basic concepts as well as recent findings and applications Solid Phase Organic Synthesis is the ideal starting point for students and researchers

in organic medicinal and combinatorial chemistry who want to take full advantage of current solid phase synthesis techniques

Solid-phase organic syntheses Anthony W. Czarnik, 2001 **Organic Synthesis on Solid Phase** Florencio Zaragoza Dörwald, 2000-04-13 This is the number one successful book on solid phase organic synthesis now in its second expanded edition It offers the reader a comprehensive overview of supports spacers and linkers 15% more contents everything there is to know about reactions and their applications clear structure numerous experimental guidelines for use in practice The ideal reference for newcomers and experts I have no doubts that this text will be the benchmark for future publications on the subject and a very hard act to follow for authors planning books of their own on this red hot topic The Alchemist

Solid-Phase Organic Syntheses, Volume 2 Peter J. H. Scott, 2012-07-02 Integrates solid phase organic synthesis with palladium chemistry The Wiley Series on Solid Phase Organic Syntheses keeps researchers current with major accomplishments in solid phase organic synthesis providing full experimental details Following the validated tested and proven experimental procedures readers can easily perform a broad range of complex syntheses needed for their own experiments and industrial applications The series is conveniently organized into themed volumes according to the specific type of synthesis This second volume in the series focuses on palladium chemistry in solid phase synthesis exploring palladium catalysts and reactions procedures for preparation and utilization ligands and linker reactions The first part of the volume offers a comprehensive overview of the field Next the chapters are organized into three parts Part Two Palladium Mediated Solid Phase Organic Syntheses Part Three Immobilized Catalysts and Ligands Part Four Palladium Mediated Multifunctional Cleavage Each chapter is written by one or more leading international experts in palladium chemistry Their contributions reflect a thorough examination and review of the current literature as well as their own first hand laboratory experience References at the end of each chapter serve as a gateway to the field's literature The introduction of palladium mediated cross coupling reactions more than thirty years ago revolutionized the science of carbon carbon bond formation It has now become a cornerstone of today's synthetic organic chemistry laboratory With this volume researchers in organic and medicinal chemistry have access to a single resource that explains the fundamentals of palladium chemistry in solid phase synthesis and sets forth clear step by step instructions for conducting their own syntheses

Solid-Phase Organic Synthesis Kevin Burgess, 2004-03-22 Solid Phase Organic Synthesis Edited by Kevin Burgess Texas A some report minor modifications enabling transformation of solution phase methods to a solid support while others report major innovations Solid Phase Organic Synthesis collects highlights and critiques some of the key developments in the field Leading practitioners explain different perspectives on diverse aspects of the area Specific topics covered include Syntheses of guanidines Palladium catalyzed C C bond forming reactions $S_{\text{N}}\text{Ar}$ reactions for the formation of heterocycles Sequence specific arylalkyne oligomers Resin supported capture agents and other reagents Synthesis on pins Monitoring of supported reactions using IR Solid phase syntheses of natural product derivatives Of related interest Combinatorial Chemistry and Molecular Diversity in

Drug Discovery Eric M Gordon and James F Kerwin 1998 0 471 15518 7 544 pp Combinatorial Chemistry Synthesis and Application Stephen R Wilson and Anthony W Czarnik 1997 0 471 12687 X 288 pp Linker Strategies in Solid-Phase Organic Synthesis Peter Scott, 2009-10-13 Linker design is an expanding field with an exciting future in state of the art organic synthesis Ever increasing numbers of ambitious solution phase reactions are being adapted for solid phase organic chemistry and to accommodate them large numbers of sophisticated linker units have been developed and are now routinely employed in solid phase synthesis Linker Strategies in Solid Phase Organic Synthesis guides the reader through the evolution of linker units from their genesis in solid supported peptide chemistry to the cutting edge diversity linker units that are defining a new era of solid phase synthesis Individual linker classes are covered in easy to follow chapters written by international experts in their respective fields and offer a comprehensive guide to linker technology whilst simultaneously serving as a handbook of synthetic transformations now possible on solid supports Topics include the principles of solid phase organic synthesis electrophile and nucleophile cleavable linker units cyclative cleavage as a solid phase strategy photocleavable linker units safety catch linker units enzyme cleavable linker units T1 and T2 versatile triazene linker groups hydrazone linker units benzotriazole linker units phosphorus linker units sulfur linker units selenium and tellurium linker units sulfur oxygen and selenium linker units cleaved by radical processes silicon and germanium linker units boron and stannane linker units bismuth linker units transition metal carbonyl linker units linkers releasing olefins or cycloolefins by ring closing metathesis fluororous linker units solid phase radiochemistry The book concludes with extensive linker selection tables cataloguing the linker units described in this book according to the substrate liberated upon cleavage and conditions used to achieve such cleavage enabling readers to choose the right linker unit for their synthesis Linker Strategies in Solid Phase Organic Synthesis is an essential guide to the diversity of linker units for organic chemists in academia and industry working in the broad areas of solid phase organic synthesis and diversity oriented synthesis medicinal chemists in the pharmaceutical industry who routinely employ solid phase chemistry in the drug discovery business and advanced undergraduates postgraduates and organic chemists with an interest in leading edge developments in their field **Wiley Series on Solid-phase Organic Syntheses**, 2001 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

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Polymeric Materials in Organic Synthesis and Catalysis Michael R. Buchmeiser, 2006-03-06 This is the first book to describe the synthesis and characterization of the materials used in polymer supported synthesis The authors cover not only the classical polymers and their use in homogeneous heterogeneous and micellar catalysis but also such new developments as enzyme labile linkers illustrating how to simplify the purification process and avoid waste The result is a wealth of useful information for beginners and experts alike in one handy reference removing the need for difficult and time consuming research among the literature Organic Synthesis Highlights V Hans-Günther Schmalz, Thomas Wirth, 2008-09-26 Here H G Schmalz and T Wirth have put together a collection of current contributions on the most important topics in organic chemistry all in one handy book Like its successful predecessors this volume provides readers with numerous articles on the current state of synthetic methods and their applications The wide range covered by nearly forty contributions ensures a concise overview of the latest developments in the field whether they be new methods of C C bond formation or racemization asymmetric phase transfer catalysis or stereoselective metathesis reactions solid phase reactions or particularly elegant syntheses of challenging natural products Throughout the highly renowned authors guarantee the exceptionally high quality of the articles making this an indispensable read for everyone wanting to stay abreast of developments in organic chemistry

Advances in Organic Synthesis Atta-ur-Rahman, 2018-10-18 Advances in Organic Synthesis is a book series devoted to the latest advances in synthetic approaches towards challenging structures The series presents comprehensive reviews written by eminent authorities on different synthetic approaches to selected target molecules and new methods developed to achieve specific synthetic transformations or optimal product yields Advances in Organic Synthesis is essential for all organic chemists in academia and the industry who wish to keep abreast of rapid and important developments in the field This

volume presents the following reviews o Recent Progress on Asymmetric Synthesis of Chiral Flavanones Chromanones and Chromenes o Supramolecular Chemistry of Modified Amino Acids and Short Peptides o The Use of Nanocatalysts in the Synthesis of Heterocycles A Contemporary Approach o Synthesis and Applications of 1 2 3 Triazoles o Ring C H Functionalization of Aromatic N Oxides

Green Techniques for Organic Synthesis and Medicinal Chemistry Wei Zhang, Berkeley W. Cue, 2012-07-23 Green chemistry is a new way of looking at organic synthesis and the design of drug molecules offering important environmental and economic advantages over traditional synthetic processes Pharmaceutical companies are increasingly turning to the principles of green chemistry in an effort to reduce waste reduce costs and develop environmentally benign processes Green Techniques for Organic Synthesis and Medicinal Chemistry presents an overview of the established and emerging techniques in green organic chemistry highlighting their applications in medicinal chemistry The book is divided into four parts Introduction Introduces the reader to the toxicology of organic chemicals their environmental impact and the concept of green chemistry Green Catalysis Covers a variety of green catalytic techniques including organocatalysis supported catalysis biocatalysis fluororous catalysis and catalytic direct C H bond activation reactions Green Synthetic Techniques Presents a series of new techniques assessing the green chemistry aspects and limitations i e cost equipment expertise Techniques include reactions in alternative solvents atom economic multicomponent reactions microwave and ultrasonic reactions solid supported synthesis fluororous and ionic liquid based recycling techniques and flow reactors Green Techniques in Pharmaceutical Industry Covers applications of green chemistry concepts and special techniques for medicinal chemistry including synthesis analysis separation formulation and drug delivery Process and business case studies are included to illustrate the applications in the pharmaceutical industry Green Techniques for Organic Synthesis and Medicinal Chemistry is an essential resource on green chemistry technologies for academic researchers R D professionals and students working in organic chemistry and medicinal chemistry

Handbook of Organopalladium Chemistry for Organic Synthesis Ei-ichi Negishi, Armin de Meijere, 2003-11-24 Organized to provide maximum utility to the bench synthetic chemist The editor is well known for his work in exploring developing and applying organopalladium chemistry Contributors include over 24 world authorities in the field

Microwave Assisted Organic Synthesis Jason Tierney, Pelle Lidström, 2009-02-12 The first reports on the application of microwaves in organicsynthesis date back to 1986 but it was not until the recentintroduction of specifically designed and constructed equipment which countered the safety and reproducibility concerns thatsynthetic application of microwaves has become established as alaboratory technique Microwave assisted synthesis is now beingadopted in many industrial and academic laboratories to takeadvantage of the novel chemistry that can be carried out using avariety of organic reaction types This book demonstrates the underlying principles of microwavedielectric heating and by reference to a range of organic reactiontypes it s effective use in synthetic organic chemistry Toillustrate the impact microwave assisted organic synthesis can haveon chemical research case studies

drawn mainly from the pharmaceutical industry are presented Organic Synthesis, Natural Products Isolation, Drug Design, Industry and the Environment Chhanda Mukhopadhyay, Bubun Banerjee, 2023-07-04 Over the years applications of various non conventional solvents diversified in various fields such as organic synthesis natural products drug design pharmaceuticals dyes and agrochemical industries This book consists of nine chapters which present recent advances and applications of various non conventional solvents in organic transformations drug design and bioremediation Environmental impacts of non conventional solvents and comparison between traditional solvents and non conventional solvents are also discussed in this book **Current Organic Chemistry**, 1999-09 **Annual Reports in Organic Synthesis-2004** Philip M. Weintraub, Jeffrey Sabol, Peter Norris, Kenneth Turnbull, 2004-12-09 Annual Reports in Organic Synthesis 2004 provides an organized annual review of synthetically useful information that proves beneficial to organic chemists both specialists and nonspecialists in synthesis Information appears as promptly as possible after the close of the abstracting period and is presented in an organized manner Chapters I to III are organized by reaction type Chapter IV deals with methods of synthesizing heterocyclic systems Chapter V covers the use of protecting groups Chapter VI deals with those synthetically useful transformations that do not fit easily into the first three chapters In Chapter VII the reviews have been divided into sections to help the reader to quickly find a review on a specific topic **Organic Syntheses Based on Name Reactions** Alfred Hassner, Irishi Namboothiri, 2011-11-18 Organic Syntheses Based on Named Reactions is an indispensable reference companion for chemistry students and researchers Building on Hassner Stumer's highly regarded 2e this new work reviews 750 reactions with over 100 new stereoselective and regioselective reactions Each A Z entry provides a carefully condensed summary of valuable information that a chemist needs to understand and utilize these fundamental reactions in their work including brief practical details The book is illustrated with real synthetic examples from the literature and about 3 400 references to the primary literature to aid further reading Extensive indexes name reagent reaction and a very useful functional group transformation index help the reader fully navigate this extensive collection of important reactions With its comprehensive coverage superb organization and quality of presentation this long awaited new edition belongs on the shelf of every organic chemist Handy reference guide that explains 750 established named processes and methods that are trusted and used by organic chemists to synthesize or transform molecules Provides key data on each transformation including background mechanism and uniquely to books in this area experimental details Extensive and multiple indexes allow the reader to search for information as and how they want and to rapidly plan transformations

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