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Organic Reactions Vol 13:

Organic Reactions, Volume 73 Dennis G. Hall, Hugo Lachance, 2009-01-09 Allylic boron compounds have gained a prominent position as a truly practical class of synthetic reagents in the past twenty five years Their main application as a method for the stereoselective synthesis of homoallylic alcohols by allyl transfer to carbonyl compounds is essentially unmatched In this process a new carbon carbon bond is formed and up to two new stereogenic centers are created in a predictably controlled manner Highly effective and general enantioselective variants are available with countless applications in the total syntheses of polyacetate and polypropionate natural products Furthermore the residual allylic unit can be manipulated through a number of different transformations such as oxidative cleavage olefin metathesis hydrometalations and many others The discovery of Lewis and Brønsted acid catalyzed manifolds recently has opened new doors for further development of this important reaction This book provides an up to date comprehensive survey of the literature of this rich chemistry as it pertains to organic synthesis Consistent with the goal of Organic Reactions the content and presentation emphasize the preparative aspects of the reactions giving considerable attention to the scope and limitations of the individual transformations along with detailed experimental procedures A tabular survey of all examples of carbonyl allylboration used in organic synthesis is presented in nine tables organized by type of allylic boron reagent with listings within each table according to increasing carbon number of the carbonyl substrates The literature is covered through December 2010 including a new listing of nearly 200 literature citations that supplement the original coverage of 834 references used in the earlier hard cover version of the chapter Allylboration of Carbonyl Compounds is intended to be a useful easily read reference book for all practitioners of synthetic organic chemistry working in academic and industrial laboratories

Organic Reactions, Volume 85, 2014-11-03 Volume 85 represents the ninth single chapter volume to be produced in Organic Reactions 72 year history The original authors Drs Shaughnessy and DeVasher have compiled an enormous and growing literature and distilled it into an extraordinarily useful treatise on all aspects of the copper catalyzed amination process Given the myriad types of nitrogen based nucleophiles and various ligand sets and reaction conditions the authors have done an outstanding job of identifying the best options for various permutations of donor and acceptor This comprehensive treatment of so many different options constitutes a dream field guide for the perplexed chemist who wants to know how best to approach the formation of a C N bond in a target structure and whether copper or palladium catalysis is recommended

Organic Reactions, Volume 113 P. Andrew Evans, 2023-09-06 A carefully curated review of the scientific literature Volume 113 of Organic Reactions presents critical discussions of widely used organic reactions or particular steps of a reaction The material is treated from a preparative viewpoint with emphasis on limitations interfering influences effects of structure and the selection of experimental techniques The work includes tables that contain all possible examples of the reaction under consideration Detailed procedures illustrate the significant modifications of each method

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Organic Reactions, Volume 83, 2014-01-21 The two chapters in Volume 83 describe reactions that represent two major and growing franchises in the Organic Reactions series namely transition metal catalyzed cross coupling reactions and multicomponent reactions These two processes not only have a rich history in synthetic organic chemistry but also represent some of the most commonly employed transformations in the modern practice of molecule construction The first chapter authored by Eiichi Nakamura Takuji Hatakeyama Shingo Ito Kentaro Ishizuka Laurean Ilies and Masaharu Nakamura describes one of the most exiting advances in the field of transition metal catalyzed cross coupling reactions the use of iron catalysts The second chapter authored by Stephen G Pyne and Minyan Tang describes the latest in a long line of multicomponent reactions published in this series the boronic acid Mannich reaction sometimes called the Petasis reaction

Organic Reactions, Volume 108, 2022-01-26 The 108th volume in this series for organic chemists in academia and industry presents critical discussions of the following widely used organic reactions CYCLIZATION REACTIONS OF NITROGEN CENTERED RADICALS Stuart W McCombie B atrice Quiclet Sire and Samir Z Zard TRANSITION METAL CATALYZED AMINOXYGENATION OF ALKENES Sherry R Chemler Dake Chen Shuklendu D Karyakarte Jonathan M Shikora and Tomasz Wdowik

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as ketones aldehydes esters and nitriles Prim Marque Gaucher Campagne including enantioselective variants palladium catalyzed cyclization to form indoles Cacchi Fabrizi Goggiamani one of the most prevalent and important classes of heterocycles in natural products and pharmaceutical agents and an overview of a newly developed dihydroxylation reaction of alkenes Donohoe Bataille Innocenti that uses hydrogen bonding interactions to direct the delivery of an osmium catalyst with high selectivity As with all Organic Reactions chapters these reviews emphasize the preparative aspects of the featured transformation and contain comprehensive compilations of all known examples in the tables

Compendium of Organic Synthetic Methods, Volume 13 Michael B. Smith, 2014-07-07 The Compendium of Organic Synthetic Methods serves as a handy desktop reference for organic chemists to browse new reactions and transformations of interest facilitating the search for functional group transformations in the original literature of organic chemistry Volume 13 contains both functional group transformations and carbon carbon bond forming reactions from the literature in the years 2005-8 It presents examples of published reactions for the preparation of monofunctional compounds The Compendium of Organic Synthetic Methods series facilitates the search for quality selected functional group transformations organized by reacting functional group of starting material and functional group formed with full references to each reaction Presents examples of published reactions for the preparation of monofunctional compounds from the literature of 2005-8 Provides a handy reference and a valuable tool to the working organic chemist allowing a quick check of known organic transformations Stringent criteria for inclusion of reactions including real synthetic utility of reactions reagents readily available or easily prepared and handled in the laboratory

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