

“Palladacycles: Synthesis, Characterization and Applications”

EDITED BY J. DUPONT (UFRGS, Institute of Chemistry, Brazil) and M. PFEFFER (Université Louis Pasteur, France). Wiley-VCH, Weinheim, Germany, 2009. 431 pages. ISBN 978-3-527-31781-3. £120, €144, U.S. \$200.

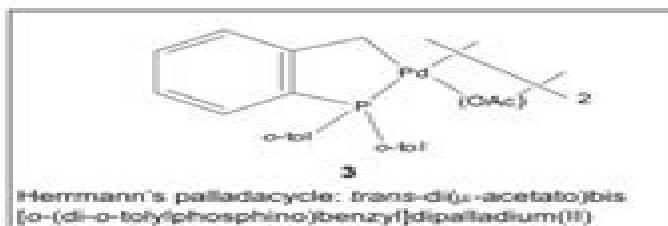
Reviewed by Chris Barnard

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Palladium compounds containing chelating ligands with at least one palladium–carbon bond are commonly known as palladacycles. Related compounds exist for other late transition metals. There are two distinct types of palladacycle where the ligand is either an anionic four-electron donor (Structure 1) or a six-electron donor (Structure 2).



These types of compound were first characterised in the 1960s (1, 2), but came to prominence in the 1990s when their potential as catalysts for cross-coupling reactions was highlighted by Herrmann (3). Herrmann's palladacycle is shown in Structure 3. The compounds have high thermal stability, permitting them to be used with low cost, but poorly reactive, aryl chloride substrates. There are many variations on the basic structural types shown in Structures 1 and 2, differing both in the nature of the supporting donor atom Y (commonly Y = nitrogen, phosphorus or sulfur) and the size of the chelate ring, ranging from three to ten atoms. Compounds containing five- and six-membered rings are the most easily prepared. The compounds may be neutral or charged, and dimeric compounds related to Structure 1 with bridging ligands X (such as chloride, or acetate as in Structure 3) are common.



Herrmann's palladacycle: *trans*-di(μ -acetato)bis[σ -(di- σ -tolylphosphino)benzyl]dipalladium(II)

There have been increasing numbers of papers related to palladacycles in recent years and this book provides a timely review of this literature. There are fifteen chapters contributed by authors interested in the field, which describe the formation, characterisation, properties and applications of palladacycles. They are most commonly formed by activation of an aryl carbon–hydrogen bond (less commonly, reaction can also occur at an aliphatic C–H bond). This transformation has attracted much interest, since C–H activation is key to the efficient utilisation of hydrocarbon natural resources, and has been the focus of both practical and theoretical studies (4). Although palladacycles show excellent thermal stability with respect to decomposition to Pd metal, they are far from inert. This has led to their exploitation as catalysts for cross-coupling reactions. Initially it was thought that these compounds might be stable to reduction to Pd(0) and so a catalytic cycle involving Pd(II) and Pd(IV) was proposed, but to date clear experimental evidence to support this idea has not been obtained, and it is believed that in many cases palladacycles act as steady-state sources of colloidal Pd nanoparticles as the catalytically active species. This application of

Palladacycles Synthesis Characterization And Applications

Yicheng Fang

Palladacycles Synthesis Characterization And Applications:

Palladacycles Jairton Dupont, Michel Pfeffer, 2008-10-13 From synthesis to applications in catalysis material science and biology this much needed book is the first to comprehensively present everything you need to know about palladacycles Renowned international authors guarantee high quality content making this a must have for everyone working in the field

Cyclometalation Reactions Iwao Omae, 2014-01-23 This book provides a review of cyclometalation reactions and organometallic intramolecular coordination five membered ring products the most active type of reactions in synthetic organic reactions and their products Included is the discovery of intramolecular coordination bonds in cyclometalation reactions and the characteristics of those reactions as well as the reasons that their five membered ring compounds are very easily synthesized through such reactions In addition the applications of cyclometalation reactions and five membered ring products synthetic applications catalysts and other products are described These topics are of special interest for industrial researchers

Suzuki-Miyaura Cross- Coupling Reaction and Potential Applications Ioannis D. Kostas, 2018-03-23 This book is a printed edition of the Special Issue Suzuki Miyaura Cross Coupling Reaction and Potential Applications that was published in Catalysts

Activating Unreactive Substrates Carsten Bolm, F. Ekkehardt Hahn, 2009-03-02 The use of secondary interactions for the activation of non reactive substrates constitutes a new and modern approach in catalysis This first comprehensive treatment of this important research field covers the entire field and reveals the links between the various chemical disciplines It thus adopts an interdisciplinary approach making it of interest to the whole chemical community A must for organic inorganic catalytic and complex chemists as well as those working with on organometallics

Handbook of Cyclization Reactions Shengming Ma, 2010 The ultimate and only reference source in this field this handbook discusses the latest advances on the reactions leading to the formation of cyclic structures and includes chapters presenting the most synthetically attractive cyclization reactions Leading chemists from around the world provide authoritative first hand information including experimental procedures that offer readers valuable practical information that is otherwise unavailable An aid for every organic chemist in grasping and applying these new reactions

Comprehensive Organometallic Chemistry III, Volume 8 D. M. P. Mingos, Robert H. Crabtree, Allan Canty, 2007 Provides essential information for any chemist or technologist who needs to use or apply organometallic compounds Provides a comprehensive overview of recent developments in the field and attempts to predict trends in the field over the next ten years

Dissertation Abstracts International, 2008 *Australian Journal of Chemistry*, 2007 **Current Organic Chemistry**, 2009 Provides in depth reviews on current progress in the fields of asymmetric synthesis organometallic chemistry bioorganic chemistry heterocyclic chemistry natural product chemistry and analytical methods in organic chemistry Each issue is edited by an appointed Executive Guest Editor

Chemische Berichte/Recueil, 1997

Deutsche

Nationalbibliografie Die deutsche Nationalbibliothek, 2008

Trends in Organometallic Chemistry, 1999

Directory of

Graduate Research American Chemical Society. Committee on Professional Training,2005 Faculties publications and doctoral theses in departments or divisions of chemistry chemical engineering biochemistry and pharmaceutical and or medicinal chemistry at universities in the United States and Canada European Journal of Inorganic Chemistry ,2004

Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards ,2006 *Chemical Abstracts* ,2002 *Journal American Chemical Society*,2004 **Progress in Heterocyclic Chemistry** Gordon Gribble,J. Joule,2006-12-18 The eighteenth annual volume of Progress in Heterocyclic Chemistry covers the literature published during 2005 on most of the important heterocyclic ring systems This volume opens with two specialized reviews The first by Heui Yeon Kim and Cheon Gyu Cho covers The Diels Alder cycloadditions of 3 5 dibromo 2 pyrone and its derivatives The second by Jean Luc Girardet and Stanley Lang discusses Recent developments in the chemistry of nucleosides The remaining chapters examine the 2005 literature on the common heterocycles in order of increasing ring size and the heteroatoms present References are incorporated into the text using the journal codes adopted by Comprehensive Heterocyclic Chemistry and are listed in full at the end of each chapter Included in the index are systematic heterocyclic ring system names 2006 ,2007 2007 ,2007

Reviewing **Palladacycles Synthesis Characterization And Applications**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing.

Within the pages of "**Palladacycles Synthesis Characterization And Applications**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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