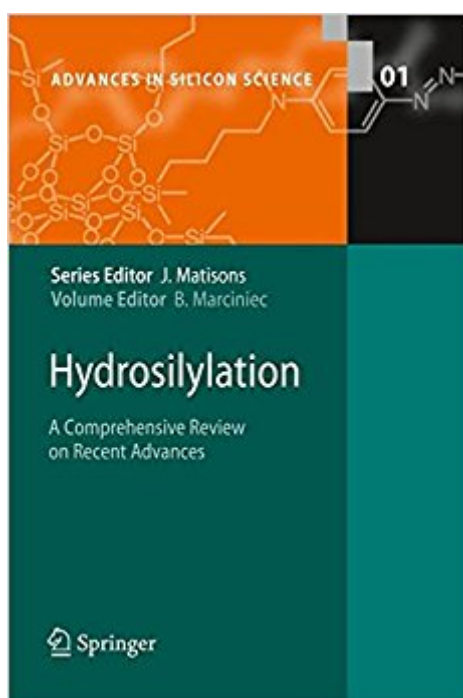


The book was found

# Hydrosilylation: A Comprehensive Review On Recent Advances (Advances In Silicon Science)



## Synopsis

For fifty years, Hydrosilylation has been one of the most fundamental and elegant methods for the laboratory and industrial synthesis of organosilicon and silicon related compounds. Despite the intensive research and continued interest generated by organosilicon compounds, no comprehensive book incorporating its various aspects has been published this century. The aim of this book is to comprehensively review the advances of hydrosilylation processes since 1990. The survey of the literature published over the last two decades enables the authors to discuss the most recent aspects of hydrosilylation advances (catalytic and synthetic) and to elucidate the reaction mechanism for the given catalyst used and the reaction utilization. New catalytic pathways under optimum conditions necessary for efficient synthesis of organosilicon compounds are presented. This monograph shows the extensive development in the application of hydrosilylation in organic and asymmetric syntheses and in polymer and material science.

## Book Information

Series: Advances in Silicon Science (Book 1)

Hardcover: 408 pages

Publisher: Springer; 2009 edition (December 12, 2008)

Language: English

ISBN-10: 1402081715

ISBN-13: 978-1402081712

Product Dimensions: 6.1 x 0.9 x 9.2 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #3,882,894 in Books (See Top 100 in Books) #69 in Books > Science & Math > Chemistry > Organic > Organometallic Compounds #767 in Books > Science & Math > Chemistry > Inorganic #1063 in Books > Science & Math > Chemistry > Physical & Theoretical > Physical Chemistry

## Customer Reviews

From the reviews: "This book is a remarkably useful contribution to the literature of organosilicon chemistry and silicon-based polymers. I do highly recommend this book to researchers concerned with this area. For research libraries, it represents a very timely and thorough compilation of the literature. For those of us working in organosilicon chemistry, this is a useful compendium of the recent developments in hydrosilylation reactions. I am happy to recommend

this book to individuals and institutions with research interests in silicon chemistry." (Stephen J. Clarson, *Silicon*, Vol. 1, 2009)

For fifty years, Hydrosilylation has been one of the most fundamental and elegant methods for the laboratory and industrial synthesis of organosilicon and silicon related compounds. Despite the intensive research and continued interest generated by organosilicon compounds, no comprehensive book incorporating the various aspects of Hydrosilylation has been published this century. The aim of Hydrosilylation is to comprehensively review the advances of hydrosilylation processes since 1990. The survey of the literature published over the last two decades, including ca 2000 articles, patents and reviews, enables the authors to discuss the most recent aspects of hydrosilylation advances, (i.e. catalytic and synthetic) as well as to elucidate the reaction mechanism for the given catalyst used and the reaction utilization. New catalytic pathways under optimum conditions necessary for efficient synthesis of organosilicon compounds are presented. The key point of this monograph is to show extensive development in the application of hydrosilylation in organic and asymmetric syntheses as well as in polymer and material science. Hydrosilylation is the definitive monograph in the area written for researchers and industrial chemists involved in silicon chemistry, organic synthetic chemists with an interest in silicones, silane coupling agents and hybrid inorganic-organic materials; as well as researchers working on organosilicon reagents in organic and polymer chemistry. Finally, this book provides an excellent review of hydrosilylation processes and their products thus making this book a useful handbook for post-graduate students working in catalysis, organometallic chemistry as well as synthesis and the technology of fine chemicals.

Not great for real world hydrosilylation but great for the academic

[Download to continue reading...](#)

Hydrosilylation: A Comprehensive Review on Recent Advances (Advances in Silicon Science) Bisk  
CPA Review: Regulation, 43rd Edition, 2014 (Comprehensive CPA Exam Review Regulation) (Bisk  
Comprehensive CPA Review) (Cpa Comprehensive Exam Review. Regulation) Silicon-Based  
Polymer Science: A Comprehensive Resource (ACS Advances in Chemistry) Bisk CPA Review:  
Financial Accounting & Reporting - 41st Edition 2012 (Comprehensive CPA Exam Review Financial  
Accounting & Reporting) (Cpa ... Enterprises) (Bisk Comprehensive CPA Review) New methods  
and recent developments of the stereochemistry of ephedrine, pyrrolizidine, granatane and tropane  
alkaloids, (Recent developments in the chemistry of natural carbon compounds) Saunders

Comprehensive Review for the NCLEX-RN® Examination, 7e (Saunders Comprehensive Review for Nclex-Rn) Comprehensive Review Guide For Health Information: RHIA & RHIT Exam Prep (Tyson-Howard, Comprehensive Review Guide for Health Informat) Saunders Comprehensive Review for the NCLEX-PN® Examination, 6e (Saunders Comprehensive Review for Nclex-Pn) Mosby's Comprehensive Review of Nursing for the NCLEX-RN® Examination, 20e (Mosby's Comprehensive Review of Nursing for Nclex-Rn) Vascular and Endovascular Surgery: A Comprehensive Review Expert Consult: Online and Print, 8e (VASCULAR SURGERY: A COMPREHENSIVE REVIEW (MOORE)) Saunders Comprehensive Review for the NCLEX-PN® Examination, 5e (Saunders Comprehensive Review for Nclex-Pn) Saunders Comprehensive Review for the NCLEX-PN® Examination (Saunders Comprehensive Review for Nclex-Pn) Mosby's Comprehensive Review of Practical Nursing for the NCLEX-PN® Exam, 17e (Mosby's Comprehensive Review of Practical Nursing for Nclex-Pn) Advances in Corrosion Science and Technology: Volume 6 (Advances in Corrosion Science & Technology) Advances in Nuclear Science and Technology: Volume 22 (Advances in Nuclear Science & Technology) Bisk CPA Review: Financial Accounting & Reporting - 43rd Edition 2014 (Comprehensive CPA Exam Review Financial Accounting & Reporting) (Cpa Review ... and Reporting Business Enterprises) Recent Advances in Operator Theory and Operator Algebras Life With CPAP: Central and Obstructive Sleep Apnea, Recent Advances in Therapy The Resolution Revolution: Recent Advances In cryoEM, Volume 579 (Methods in Enzymology) Plasmapheresis and Intravenous Immunoglobulin: Clinical Uses, Potential Complications and Long-Term Health Effects (Recent Advances in Hematology Research)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)