

<<高等有机化学>>

图书基本信息

书名 : <<高等有机化学>>

13位ISBN编号 : 9787030238580

10位ISBN编号 : 7030238583

出版时间 : 2009-1

出版时间 : 科学出版社

作者 : (美)卡雷, (美)松德贝里

页数 : 1321

版权说明 : 本站所提供之下载的PDF图书仅提供预览和简介,请支持正版图书。

更多资源请访问 : <http://www.tushu007.com>

<<高等有机化学>>

内容概要

自从1977年面世以来，《高等有机化学》作为学科首选教材的地位一直没有动摇过，广泛地覆盖了有机化合物的结构、反应活性及合成。

她的第五版相对2001年出版的第四版进行了大幅度的修订，更新了学科发展的相关资料，内容组织更加清晰明朗，特别是计算化学部分。

通过控制反应而得到特定的合成是有机合成的全部目标。

PartB在不同反应类型的基础上详尽地描述了最常见的和最有用的合成反应。

每章后附有习题精选及解答习题的推荐参考文献。

本书可供有机化学、药物化学和生物化学等专业的高年级本科生、研究生以及相关领域的科研人员参考。

<<高等有机化学>>

作者简介

作者 : (美国)卡雷 (Carey.F.A.) (美国)松德贝里 (Sundberg.R.J.)

<<高等有机化学>>

书籍目录

Preface Acknowledgment and Personal Statement Introduction Chapter 1. Alkylation of Enolates and Other Carbon Nucleophiles
 Introduction 1.1. Generation and Properties of Enolates and Other Stabilized Carbanions 1.1.1. Generation of Enolates by Deprotonation 1.1.2. Regioselectivity and Stereoselectivity in Enolate Formation from Ketones and Esters 1.1.3. Other Means of Generating Enolates 1.1.4. Solvent Effects on Enolate Structure and Reactivity 1.2. Alkylation of Enolates 1.2.1. Alkylation of Highly Stabilized Enolates 1.2.2. Alkylation of Ketone Enolates 1.2.3. Alkylation of Aldehydes, Esters, Carboxylic Acids, Amides, and Nitriles 1.2.4. Generation and Alkylation of Dianions 1.2.5. Intramolecular Alkylation of Enolates 1.2.6. Control of Enantioselectivity in Alkylation Reactions 1.3. The Nitrogen Analogs of Enols and Enolates: Enamines and Imine Anions General References Problems Chapter 2. Reactions of Carbon Nucleophiles with Carbonyl Compounds Introduction 2.1. Aldol Addition and Condensation Reactions 2.1.1. The General Mechanism 2.1.2. Control of Regio- and Stereoselectivity of Aldol Reactions of Aldehydes and Ketones 2.1.3. Aldol Addition Reactions of Enolates of Esters and Other Carbonyl Derivatives 2.1.4. The Mukaiyama Aldol Reaction 2.1.5. Control of Facial Selectivity in Aldol and Mukaiyama Aldol Reactions 2.1.6. Intramolecular Aldol Reactions and the Robinson Annulation 2.2. Addition Reactions of Imines and Iminium Ions 2.2.1. The Mannich Reaction 2.2.2. Additions to N-Acyl Iminium Ions 2.2.3. Amine-Catalyzed Condensation Reactions 2.3. Acylation of Carbon Nucleophiles 2.3.1. Claisen and Dieckmann Condensation Reactions 2.3.2. Acylation of Enolates and Other Carbon Nucleophiles 2.4. Olefination Reactions of Stabilized Carbon Nucleophiles 2.4.1. The Wittig and Related Reactions of Phosphorus-Stabilized Carbon Nucleophiles 2.4.2. Reactions of α -Trimethylsilylcarbanions with Carbonyl Compounds 2.4.3. The Julia Olefination Reaction 2.5. Reactions Proceeding by Addition-Cyclization 2.5.1. Sulfur Ylides and Related Nucleophiles 2.5.2. Nucleophilic Addition-Cyclization of α -Haloesters 2.6. Conjugate Addition by Carbon Nucleophiles 2.6.1. Conjugate Addition of Enolates 2.6.2. Conjugate Addition with Tandem Alkylation 2.6.3. Conjugate Addition by Enolate Equivalents 2.6.4. Control of Facial Selectivity in Conjugate Addition Reactions 2.6.5. Conjugate Addition of Organometallic Reagents 2.6.6. Conjugate Addition of Cyanide Ion General References Problems Chapter 3. Functional Group Interconversion by Substitution, Including Protection and Deprotection Introduction 3.1. Conversion of Alcohols to Alkylating Agents 3.1.1. Sulfonate Esters 3.1.2. Halides Chapter 4. Electrophilic Additions to Carbon-Carbon Multiple Bonds Chapter 5. Reduction of Carbon-Carbon Multiple Bonds, Carbonyl Groups, and Other Functional Groups Chapter 6. Concerted Cycloadditions, Unimolecular Rearrangements, and Thermal Eliminations Chapter 7. Organometallic Compounds of Group I and II Metals Chapter 8. Reactions Involving Transition Metals Chapter 9. Carbon-Carbon Bond-Forming Reactions of Compounds of Boron, Silicon, and Tin Chapter 10. Reactions Involving Carbocations, Carbenes, and Radicals and Reactive Intermediates Chapter 11. Aromatic Substitution Reactions Chapter 12. Oxidations Chapter 13. Multistep Syntheses References Index

<<高等有机化学>>

章节摘录

插图：

<<高等有机化学>>

编辑推荐

《高等有机化学:反应与合成(第5版)》可供有机化学、药物化学和生物化学等专业的高年级本科生、研究生以及相关领域的科研人员参考。

<<高等有机化学>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>