

<<有机合成指南>>

图书基本信息

书名 : <<有机合成指南>>

13位ISBN编号 : 9787506250337

10位ISBN编号 : 7506250330

出版时间 : 2001-4

出版时间 : 世界图书出版公司

作者 : R.K Mackie,D.M.Smith et al

页数 : 387

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>

<<有机合成指南>>

内容概要

《有机合成指南(第3版)(英文版)》由世界图书出版公司出版，内容包括：Introduction、Functional group chemistry: the basics、Formation of carbon-carbon bonds: the principles、Formation of carbon-carbon bonds: reactions of organometallic compounds等。

<<有机合成指南>>

书籍目录

1 Introduction
2 Functional group chemistry: the basics
2.1 Selectivity of organic reactions
2.2 Functionalization of alkanes
2.3 Functionalization of alkynes
2.4 Functionalization of alkynes
2.5 Functionalization of aromatic hydrocarbons
2.6 Functionalization of substituted benzene derivatives
2.7 Functionalization of simple heterocyclic compounds
2.8 Interconversion of functional groups
Summary
3 Formation of carbon-carbon bonds: the principles
3.1 General strategy
3.2 Disconnections and synthons
3.3 Electrophilic carbon species
3.4 Nucleophilic carbon species
Summary
4 Formation of carbon-carbon bonds: reactions of organometallic compounds
4.1 Grignard reagents and electrophiles
4.2 Other organometallic reagents and electrophiles
4.3 Reactions of nucleophiles derived from alkyl-ynes
4.4 Review
4.5 Worked examples
Summary
5 Formation of carbon-carbon bonds: the use of stabilized carbanions and related nucleophiles
5.1 Carbanions stabilized by two -M groups
5.2 Carbanions stabilized by one -M group
5.3 Carbanions stabilized by neighbouring phosphorus or sulfur
5.4 Nucleophilic acylation
5.5 Alkene, arene and heteroarene nucleophiles
5.6 Review
5.7 Worked examples
Summary
6 Formation of carbon-heteroatom bonds: the principles
6.1 Carbon-halogen bonds
6.2 Carbon-oxygen, carbon-sulfur and carbon-selenium bonds
6.3 Carbon-nitrogen and carbon-phosphorus bonds
6.4 Carbon-silicon bonds
Summary
7 Ring closure (and ring opening)
7.1 Intramolecular cyclization by electrophile-nucleophile interaction
7.2 Cycloaddition
7.3 Electrocyclic ring closure
7.4 Ring opening
7.5 Review
7.6 Worked examples
Summary
8 Reduction
8.1 Catalytic hydrogenation
8.2 Metal hydride reductions
8.3 Electron-transfer reactions
8.4 Reduction of specific functional groups
8.5 Reductive cleavage of carbon-heteroatom bonds
8.6 Reductive ring opening of oxiranes
8.7 Reduction Of a/B-unsaturated carbonyl compounds
8.8 Reduction of conjugated dienes
8.9 Reduction of aromatic and heteroaromatic compounds
Summary.....
9 Oxidation
10 Protective groups
11 Boron reagents
12 Phosphorus reagents
13 Silicon reagents
14 Selenium reagents
15 Asymmetric synthesis
16 Selected syntheses
Endnotes to the text
Further reading
Index

<<有机合成指南>>

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>