



## Organomagnesium Methods in Organic Chemistry (Hardback)

By Basil J Wakefield, Wakefield Basil Wakefield, Basil Wakefield

Elsevier Science Publishing Co Inc, United States, 1995. Hardback. Book Condition: New. 226 x 154 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The book opens with a general overview of the constitution and reactivity of organomagnesium compounds, followed by information on handling them and on their detection and estimation. Throughout, practical aspects as well as principles are emphasized. The chapters on the synthesis of organomagnesium compounds cover the preparation of special forms of metallic magnesium and the reaction of magnesium with substrates such as dienes, as well as the traditional preparation of Grignard reagents. Preparations by metallation and metal-halogen exchanges are also included, as are newer methods such as hydromagnesiation of alkenes and alkynes. Systematic coverage is provided on synthetically useful reactions of organomagnesium compounds. Of fundamental importance in organic synthesis are carbon-carbon bond forming reactions; additions to carbon-carbon, carbon-nitrogen, carbon-oxygen, and carbon-sulfur multiple bonds; and nucleophilic substitution at carbon. The formation of carbon-heteroatom bonds in organic compounds is described, where the heteroatom is hydrogen, nitrogen, oxygen, sulfur, or halogen. Finally, the use of organomagnesium compounds in preparing other organometalloid and organometallic compounds is outlined. Representative experimental procedures are included throughout the book, and tables with...



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