



Molecular structure and properties of silver (I/II/III) containing organometallics

By Bojidarka Ivanova

GRIN Verlag Okt 2015, 2015. Taschenbuch. Book Condition: Neu. 213x149x12 mm. Neuware - Research Paper from the year 2011 in the subject Chemistry - Anorganic Chemistry, TU Dortmund (Fakultät für Chemie und Chemische Biologie, Institut für Umweltforschung, Lehrstuhl für analytische chemie), language: English, comment: The focus of content, is on crucial for the organic synthesis information obtained in gas- and condense phase by methods of mass spectrometry and single crystal X-ray diffraction along with indispensable theoretical data about the nature of metal-C bond, structure of organometallics, their kinetic and thermodynamic properties obtained by quantum chemistry. We have emphasised the coordination chemistry of silver(I/II/III) ions among prospective and challenging areas in inorganic and metal-organic chemistry with a significant impact to organic synthesis, catalysis and materials research. , abstract: Despite a tremendous number of books, monographs, textbooks and review-articles devoted to 'organometallic chemistry', the largest part of those contributions have been designed into following structure of the content: (i) Manuals, handbooks and encyclopedias summarizing important organometallic reagents in the organic synthesis; (ii) Books, containing synthetic protocols for obtaining of organometallic reagents; and (iii) Manuals on basic organic reactions catalysed by organometallics. However, there are scarce efforts devoted to studies of reaction mechanisms,...

Reviews

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