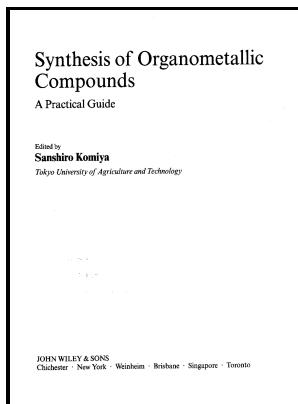


Organometallic compounds

Chapman and Hall - Organometallic compound



Description: -

- Organometallic compounds
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Notes: Previous ed. published in one volume, 1960.

This edition was published in 1968



Filesize: 43.98 MB

Tags: #Chemical #Properties #and #Uses #of #Organometallic #Compounds

Coordination complex

Structural investigations of transition metal compounds have identified several configurational classes which are characteristic of the metal and the number and nature of the substituent ligands.

PPT

The effectiveness of many transition metal compounds as catalysts for reactions comes from the facility of these metals to complex reversibly with a variety of functional groups. What about C-O, C-N or C-Cl bonds? Examples of such organometallic compounds include all and which contain and , and respectively. Tetrahedron Letters 1989, 30 46 , 6299-6302.

14.11: Preparation of Organometallic Compounds

Higher ionic bonding results in a more reactive compound. You can choose whether to allow people to download your original PowerPoint presentations and photo slideshows for a fee or free or not at all.

Organometallic chemistry

Following this theory, Danish scientist made improvements to it. Whereas magnesium and lithium react well with chlorides, bromides, and iodides, zinc is satisfactory only with bromides and iodides. The product in such cases is usually a Co I complex of a 1,3-cyclohexadiene, which may be oxidatively decomposed to the diene itself.

Organometallic chemistry

These catalyzed reactions are widely used methods to efficiently increase molecular complexity in pharmaceutical, polymer, and natural product syntheses. Another family of organometallic-based catalysts with Josiphos diphosphine ligands are used for enantioselective. Addition of hydrogen then regenerates the catalyst.

Organometallics

The main-group metals of organometallic compounds are typically considered to be those of the S-block groups 1 and 2 and the heavier elements of the p-block groups 13—15 in the of elements. Stereoselective synthesis of vinylsilanes from alkynylsilanes by reductive alkylation via hydroboration, transmetallation and carbodemetalation. Examples are given below the horizontal gray line.

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