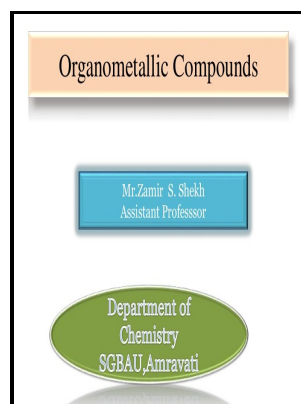


Organometallic reagents in synthesis

Oxford University Press - Formation of Gilman reagents



Description: -

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Vich, Plana de, Spain -- Description and travel -- Views
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3
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Chemistry

John Spencer, in , 2007 1. One way of circumventing this difficulty is to effect a metal-halogen exchange at low temperature , but this was not developed into a generally useful technique until recently. Two major important roles which organometallic reagents play are: Providing a means of activating small molecules like O₂, CO, HCN and H₂ into larger structures Conferring diastereo- and enantioselectivity.

Chemistry

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. The most common reaction of Grignard reagents is the alkylation of with the help of R-Mg-X.

Organotin

Kinetic analysis suggests that the two ruthenium centers in 125b act cooperatively, with one activating the ketone, whereas the other bonds to the formate.

Organolithium reagent

A century of experience clearly establishes the usefulness of organolithium and Grignard reagents in the construction of carbon-carbon bonds. The arene ligand and the counteranion influence the catalytic activity. 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.

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