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Synthesis and hydrophosphorylation of π -complexes of dibenzylideneacetone and cyclic conjugated dienones with homocarbonyl and carbonylcyclopentadienyl molybdenum compounds

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Abstract

© 2016, Pleiades Publishing, Ltd. Reactions of dibenzylideneacetone and cyclic cross-conjugated dienones with hexacarbonylmolybdenum(0) and bis[tricarbonyl(cyclopentadienyl)molybdenum(0)] afforded the corresponding complexes with η^2 -(C=C), η^2 -(C=O) coordination of the diketone to metal center, regardless of the ligand structure and initial molybdenum compound. The reactivity of the multidentate ligands may change as a result of coordination.

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Keywords

Abramov reaction, cross-conjugated dienones, inner-sphere hydrophosphorylation, molybdenum carbonyls, Pudovik reaction