

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

Kuramshin A., Vatsadze S., Galkin V., Cherkasov R.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

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.

<http://dx.doi.org/10.1134/S1070363216030221>

Keywords

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