

New iminophosphine–Ru(II) complexes and their application in hydrogenation and transfer hydrogenation.

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Rok wydania

2014

Czasopismo

Applied Organometallic
Chemistry

Numer woluminu

28

Strony

768-772

DOI

10.1002/aoc.3196

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Ruthenium complexes $[\text{RuCl}_2\text{L}_2]$ were prepared by treating $[\text{RuCl}_2(p\text{-cymene})]_2$ with structurally similar *N*-(2-(diphenylphosphino)benzylidene)-3-methylpyridin-2-amine, 4-(2-(diphenylphosphino)benzylideneamino)-3-methylphenol and 4-(2-(2-(diphenylphosphino)benzylideneamino)ethyl)phenol refluxed in toluene. These complexes were used as catalysts for the transfer hydrogenation of acetophenones in 2-propanol and for the direct hydrogenation of styrenes under hydrogen pressure. The results of the catalytic studies provide evidence that these complexes function as excellent catalysts for hydrogenation and transfer hydrogenation

Słowa kluczowe

iminophosphine, ruthenium complexes, hydrogenation, transfer hydrogenation

Adres publiczny

<http://dx.doi.org/10.1002/aoc.3196>

Strona internetowa wydawcy

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