



Reactions of nickelocene with diphenylmethyl- and triphenylmethyllithium.

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Streszczenie

Reactions of nickelocene with diphenylmethyl- and triphenylmethyllithium have been studied. Several organonickel compounds were formed in these reactions. The products were separated by column chromatography and characterised by spectral methods. The presence of alkylated nickelocenes among products of both reactions has been confirmed. The crystal structures of two π -allyl cyclopentadienylnickel complexes have been determined by X-ray measurements. Bis(η^5 -cyclopentadienyl- η^3 -cyclopentenylnickel) (**1**) crystallises in orthorhombic crystal system with eight molecules in a unit cell; space group *Pbca*, unit cell dimensions: $a=10.134(3)$, $b=11.801(3)$, $c=26.753(7)$ Å. Compound **4** contains triphenylmethyl group η^3 -bonded to NiCp unit. It crystallises in triclinic crystal system with four molecules in the unit cell; space group ; unit cell dimensions: $a=9.8747(9)$, $b=10.6331(10)$, $c=19.569(2)$ Å and $\alpha=93.793(8)$, $\beta=102.000(8)$, $\gamma=113.912(7)^\circ$.

Słowa kluczowe

Nickel, Clusters, π -Allyl complexes, Cyclopentadienyl, Crystal structure, Alkylation of nickelocene

Adres publiczny

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