



Synthesis and structure of $(\eta^5\text{-cyclopentadienyl})(\eta^5\text{-(1-(}\eta^5\text{-cyclopentadienyl)-2-phenyl-3-methyl-1-nickelindenyl)nickel}$ -the first analogue of nickelocene with a nickelacyclopentadienyl ring.

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A new metallacyclic compound $(\eta^5\text{-cyclopentadienyl})(\eta^5\text{-(1-(}\eta^5\text{-cyclopentadienyl)-2-phenyl-3-methyl-1-nickelindenyl)nickel}$ was synthesised and characterised. Its molecular and crystal structure was determined by X-ray measurements. It crystallises from hexane:THF mixture in the monoclinic crystal system and the $P2_1/c$ space group. This is the first example of the homometallic metallametalocene of nickel. Like in nickelocene the central nickel atom has 20 valence electrons, so the compound can be regarded as the first nickelacyclic analogue of nickelocene.

Słowa kluczowe

Nickel, Alkali metals, Clusters, Cyclopentadienyl, Metallacyclic compounds

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