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The reactivity of 2,2'-bipyridine complexes in the electrochemical reduction of organohalides

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Abstract

Nickel(0) complexes coordinatively unsaturated with 2,2'-bipyridine (bpy) are more reactive in the oxidative addition to organic halides than the saturated analogs, σ -Organonickel complexes formed as intermediates of catalytic cycles were prepared in high yields using nickel complexes coordinatively unsaturated with bpy and aromatic halides containing a methyl group in the ortho-position of the ring.

Keywords

2,2'-bipyridine, Alkyl halides, Aryl halides, Catalysis, Complexes, Electroreduction, Nickel