

Dimeric stannylenes based on substituted diethanolamines

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Abstract

The derivatives of bivalent tin based on diethanolamines were synthesized by the reaction between the ligands mentioned and Lappert's stannylene, $\text{Sn}[\text{N}(\text{SiMe}_3)_2]_2$. The yields of the reactions are 40-94%. Composition and structures of the compounds produced were confirmed by elemental analyses, ^1H and ^{13}C NMR spectroscopy. The structure of the compound $[\text{MeN}(\text{CH}_2\text{CH}_2\text{O})_2\text{Sn}]_2$ was studied by X-rays analysis at 120 и 293 K. The chemical behavior of the compounds obtained was investigated in cycloaddition and insertion reactions.