

Polynuclear aggregation of manganese dichloride. Syntheses, properties and structures of polymeric $[\text{MnCl}_2(\text{THF})_{1.6}]_\infty$, dimeric $[(\text{THF})_4\text{Mg}(\mu\text{-Cl}_2\text{MnCl}_2)]$, and ionic $[\text{Mg}(\text{H}_2\text{O})_2(\text{THF})_4][\text{Mg}(\text{H}_2\text{O})_4(\text{THF})_2][\text{MnCl}_4]_2 \cdot 2\text{THF}$ compounds.

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The crystallization of MnCl_2 in tetrahydrofuran results in the formation of polymeric $[\text{MnCl}_2(\text{THF})_{1.6}]$ (**1**) with an unexpected structure. This species represents the first crystallographically defined example of tetranuclear $[\text{Mn}_4(\mu_3\text{-Cl})_2(\mu_2\text{-Cl})_4\text{Cl}_2(\text{THF})_6]$ units linked by $\text{MnCl}_2(\text{THF})_2$ moieties. Our observations highlight the importance of the M_4X_6 core present in **1** as a component of α -olefin polymerization catalysts.

Słowa kluczowe

Iron, Chemical structure, Tetrahydrofurans, Transition metals, Cobalt

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