The synthesis of olefin polymerization precatalysts: $[TiCl_4(C_4H_7OCH_2CO_2CH_3)]$ and $[(C_4H_7OCH_2CO_2Et)_2Mg(\mu\text{-}Cl)_2TiCl_4]\cdot 2CH_2Cl_2$. Crystal structures and properties.

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Streszczenie

Direct reactions of $TiCl_4$ or of a 1:1 mixture of $TiCl_4$ and $MgCl_2$ with chiral tetrahydrofurfuryl $C_4H_7OCH_2CO_2CH_3$ and $C_4H_7OCH_2CO_2Et$ esters, respectively, gave $[TiCl_4(C_4H_7OCH_2CO_2CH_3)]$ (**1**) and $[(C_4H_7OCH_2CO_2Et)_2Mg(\mu\text{-}Cl)_2TiCl_4] \cdot 2CH_2Cl_2$ (**2**) which are good precatalysts for ethylene polymerization. The crystal structures of **1** and **2** have been solved by X-ray methods. In **1** the titanium atom is octahedrally coordinated by four chlorine atoms and two oxygen atoms of the chelate tetrahydrofurfuryl acetate ligand. In the heterobimetallic complex **2**, formed by slightly distorted edge-sharing octahedra, the titanium and magnesium atoms are separated by Ti ⋯ Mg of 3.725(16) Å and linked through two bridging Cl atoms.

Adres publiczny

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