Syntheses and molecular structures of $[Mg_4(THFFO)_6(OSiPh_3)_2]$ and $[Al_3Mg(\mu_3\text{-}O)(THFFO)_3(Me)_6]$ relevant to Ziegler-Natta catalyst intermediates (THFFO = 2-tetrahydrofurfuroxide).

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Streszczenie

$[Mg_8(THFFO)_8]$ used as a olefin polymerization catalyst component can be trapped by Ph_3SiOH groups to form $[Mg_4(THFFO)_6(OSiPh_3)_2]$ (**1**; 77%). We have also shown that in the reaction of magnesium alkoxide with $AlMe_3$ the methylalumoxane $[Al_3(\mu_3\text{-}O)(Me)_6]^+$ unit is formed, which was isolated and characterized as the molecular compound $[Al_3Mg(\mu_3\text{-}O)(THFFO)_3(Me)_6]\cdot C_6H_5CH_3$ (**2**; 40%) (THFFO = 2-tetrahydrofurfuroxide).

Słowa kluczowe

Crystals, Catalysts, Oxygen, Magnesium, Molecular structure

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