

Trapping of AlMe_3 with the oxygen atom of the $\text{Zr}_3(\mu_3\text{-O})$ unit.

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Streszczenie

We report for the first time the direct complexation of AlMe_3 by a $\text{Zr}_3(\mu_3\text{-O})$ core. The precursor $[\text{Zr}_4(\mu_4\text{-O})(\mu\text{-OMe})_6\text{Cl}_8(\text{thf})_4]$ (**1**) was obtained in the direct reaction of ZrCl_4 with methanol. When **1** was allowed to react with AlMe_3 , $[\text{Zr}_3\text{Al}(\mu_4\text{-O})(\mu\text{-OMe})_6\text{Cl}_6(\text{Me})(\text{thf})_3]$ (**2**) was isolated. An analogous trend was observed in the compound $[\text{Zr}_4\text{Al}_2(\mu_4\text{-O})_2(\text{OEt})_{12}\text{Cl}_6]$ (**3**), which was obtained in the direct reaction of ZrCl_4 with $\text{Zr}(\text{OEt})_4$ and Al in thf/EtOH .

Słowa kluczowe

Group theory, Alcohols, Precursors, Catalysts, Oxygen

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<https://www.acs.org/content/acs/en.html>