

The first structurally characterized nonorganometallic titanium(III) alkoxo-bridged dinuclear complexes.

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Streszczenie

The reaction of $[\text{Ti}_4(\text{OMe})_{14}\text{Cl}_2]$ (1) with an excess of AlMe_3 gave the cocrystallite $[\text{Ti}_2(\mu\text{-OMe})_2(\mu\text{-Cl})\text{Cl}_3(\text{thf})_3] \cdot [\text{Ti}_2(\mu\text{-OMe})_3\text{Cl}_3(\text{thf})_3]$ (2.3) species in a 1:1 ratio. Similar to 2, $[\text{Ti}_2(\mu\text{-OEt})_2(\mu\text{-Cl})\text{Cl}_3(\text{thf})_3]$ (4) was obtained in the reaction of an equimolar mixture of TiCl_4 and $\text{Ti}(\text{OEt})_4$ with Al/AlMe_3 . The short distance $[2.543(1)\text{ \AA}]$ in 2.3 and $2.599(1)\text{ \AA}$ in 4] between "Ti(+3)" atoms, their diamagnetism, and ELF analysis indicate the presence of a Ti-Ti bond.

Adres publiczny

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Strona internetowa wydawcy

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