



Preparation and crystal structures of donor-functionalized 2,2'-oxydiethanol complexes of titanium, yttrium, magnesium and sodium.

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1998

Czasopismo

New Journal of Chemistry

Numer woluminu

22

Strony

851-855

DOI

10.1039/A801403E

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The complexes [cis-andTiCl₂(g3-digol)(THF)], [YCl₃(g3-H₂digol)(THF)], [Mg₂(l-Cl)₂(g3-H₂digol)₂(THF)₂]Cl₂ have been synthesized and structurally characterized by X-ray diffraction. [Na₂(l,g₂-H₂digol)₂(g₃-Hdigol)₂]Complex1 consists of a dichlorotitanium(IV) core with a doubly deprotonatedmer-coordinated tridentate 2,2'-oxydiethanolato(2-) and THF ligands. Compound2 has a distorted pentagonal bipyramidal structure with chlorine ligands in the axial positions. In the cation of 3, each magnesium[Mg₂(l-Cl)₂(g₃-H₂digol)₂(THF)₂]²⁺ atom is octahedrally coordinated by two [Cl atoms, the chelate tridentate ligand and the oxygen of g₃-H₂digol atom of the coordinated THF molecule. The structure of 4 includes two six-coordinated sodium atoms linked by two OH bridges. Three oxygen atoms of g₃-Hdigol and one ether oxygen atom of the ligand g₂-H₂digol complete the coordination sphere of the sodium atoms. One of the oxygen atoms of the hydroxyl g₂-H₂digol group remains uncoordinated.

Adres publiczny

<https://doi.org/10.1039/A801403E>

Strona internetowa wydawcy

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