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Di-μ-chloro-tetrachlorobis(diethyl *o*-phthalate)dititanium(III), a new intermediate for the synthesis of titanium(III) compounds: crystal structure and properties.

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Rok wydania

1991

Czasopismo

Journal of Organometallic Chemistry

Numer woluminu

410

Strony

149-157

DOI

10.1016/0022-328X(91)80004-4

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Di-μ-chloro-tetrachlorobis(diethyl *o*-phthalate)dititanium(III) tetra(dichloromethane) was obtained by direct reaction of $TiCl_4$, diethyl *o*-phthalate and metallic aluminum in CH_2Cl_2. The crystal structure was determined by X-ray diffraction methods and refined by a full-matrix least-squares technique to R = 0.0495 for 2026 independent non-zero reflections. Crystals are triclinic, space group $P\bar{1}$, with one complex molecule in the unit cell of dimensions: a = 10.475(8), b = 10.843(9), c = 11.190(12) Å, α = 76.91(8), β = 73.39(7), γ = 81.10(7)°. The crystals contain dimeric molecules possessing crystallographic symmetry centres. The titanium(III) ions are octahedrally coordinated by two terminal and two bridging chlorine atoms and two carbonyl oxygen atoms of diethyl *o*-phthalate. The magnetic susceptibility and ESR measurements revealed an antiferromagnetic exchange interaction between titanium atoms in the dimer.

Adres publiczny

https://doi.org/10.1016/0022-328X(91)80004-4

Strona internetowa wydawcy

http://www.elsevier.com

Plik został wygenerowany dnia 2026-11-06 05:26:26

Adres w repozytorium https://old.chem.uni.wroc.pl/pl/repozytorium/p3mfxkp.