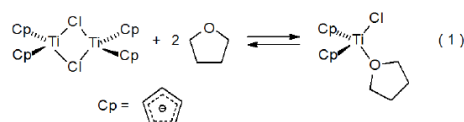


CHAPTER OVERVIEW

22: Reactions of Carbohydrate Derivatives With Titanocene(III) Chloride

Titanocene(III) chloride [Cp_2TiCl , bis(cyclopentadienyl)titanium(III) chloride] is an oxygen-sensitive compound that is prepared by reaction of Cp_2TiCl_2 with metals such as zinc, aluminum, or manganese. Cp_2TiCl exists as a dimer in the solid state, but coordinating solvents (e.g., tetrahydrofuran) dissociate the dimer into a reactive monomer (eq 1).^{1,2} (Although the monomer is coordinated with a solvent molecule, it usually is represented simply as Cp_2TiCl ; more generally, Cp_2TiCl can be looked upon as representing all the Ti(III) species present in a solution of titanocene(III) chloride.¹⁻³)



Topic hierarchy

II. Reactions

III. Electron Donation by a Ruthenium Complex

IV. Summary

This page titled 22: Reactions of Carbohydrate Derivatives With Titanocene(III) Chloride is shared under a All Rights Reserved (used with permission) license and was authored, remixed, and/or curated by Roger W. Binkley and Edith R. Binkley.