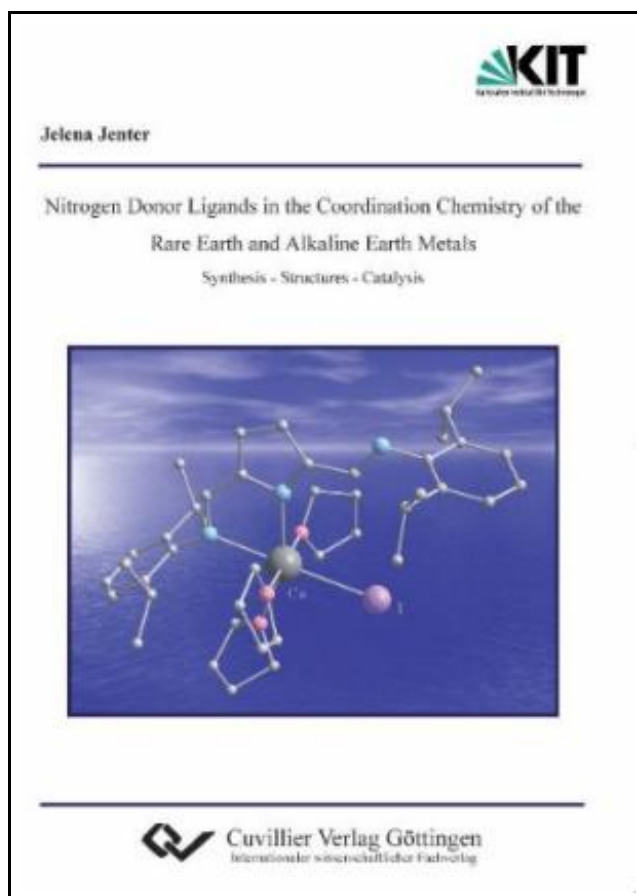


Nitrogen Donor Ligands in the Coordination Chemistry of the Rare Earth and Alkaline Earth Metals



Filesize: 5.65 MB

Reviews

Extensive manual! Its such a great read. It really is loaded with knowledge and wisdom You wont really feel monotony at at any time of your time (that's what catalogs are for regarding if you ask me).

(Myrl Hintz)

NITROGEN DONOR LIGANDS IN THE COORDINATION CHEMISTRY OF THE RARE EARTH AND ALKALINE EARTH METALS



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Cuvillier Verlag Mai 2010, 2010. Taschenbuch. Book Condition: Neu. 208x146x20 mm. Neuware - Bis(phosphinimino)methanide rare earth metal bisborohydrides, as illustrated in Scheme I, were successfully synthesized by salt metathesis reactions of $(K(CH(PPh_2NSiMe_3)_2))$ with $(Ln(BH_4)_3(THF)_n)$ ($Ln = Sc$ ($n = 2$); $Ln = La, Nd, Lu$ ($n = 3$)) or in the case of yttrium by the reaction of $((Me_3SiNPPh_2)_2CH)YCl_2$ with $NaBH_4$. Interestingly, the BH_4^- anions are 3-coordinated in the solid state structures of 3, 4, 6 and 7, while for the scandium complex 5 two different conformational polymorphs were identified, in which either both BH_4^- groups are 3-coordinated or one BH_4^- anion shows an 2-coordination mode. Furthermore, complexes 3, 6 and 7 showed high activities in the ring-opening polymerization (ROP) of ϵ -caprolactone (CL). At 0 °C, the molar mass distribution reached the narrowest values ever obtained for the ROP of CL initiated by a rare earth metal borohydride species. In collaboration with N. Meyer, rare earth metal chlorides and borohydrides of the 2,5-bis(N-(2,6-diisopropylphenyl)iminomethyl)pyrrolyl ligand were synthesized, as shown in Scheme II. The reaction of $((DIP2pyr)K)$ (10) with anhydrous neodymium trichloride afforded $((DIP2pyr)NdCl_2(THF)_2)$ (12) which is dimeric in the solid state. Excitingly, the reaction of $((DIP2pyr)K)$ (10) with $(Ln(BH_4)_3(THF)_n)$ ($Ln = Sc$ ($n = 2$); $Ln = La, Nd, Lu$ ($n = 3$)) depends on the ionic radii of the center metals. For the larger rare earth metals lanthanum and neodymium, the expected products $((DIP2pyr)Ln(BH_4)_2(THF)_2)$ ($Ln = La$ (13), Nd (14)) were obtained; while for the smaller rare earth metals scandium and lutetium, an unusual redox reaction of a BH_4^- anion with one of the Schiff-base functions of the ligand was observed and the products $((DIP2pyr^+-BH_3)Ln(BH_4)(THF)_2)$ ($Ln = Sc$ (15), Lu (16)) were formed (Scheme II). Moreover, the two neodymium containing complexes 12 and 14 were investigated as Ziegler-Natta catalysts for...

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