



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

By Jelena Jenter

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 $((Me_3SiNPPh_2)_2CH)_2YCl_2$ 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 $((DIP_2pyr)K)$ (10) with anhydrous neodymium trichloride afforded $((DIP_2pyr)NdCl_2(THF))_2$ (12) which is dimeric in the solid state. Excitingly, the reaction of $((DIP_2pyr)K)$ (10) with $(Ln(BH_4)_3(THF)_n)$ ($Ln = ...$

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