

Pozvánka na doktorandský seminář chemie
Čtvrtek 15. 5. 2008 v 16.00 v Aule na Kotlářské 2

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Coordination Chemistry of Aluminum: Molecular Alumoxanes and Aluminum Chalcogenides.

The preparation of functionalized molecular alumoxanes, $[\{LAl(X)(\mu-O)\}_2]$ ($X = H, OH, SH, SeH; L = [HC\{MeC(NAr)\}_2, Ar = 2,4,6-Me_3C_6H_2]$) and the related aluminum chalcogenides $[\{LAl(EH)(\mu-E)\}_2]$ ($E = S, Se$) (Figure 1) will be discussed together with their reactivity in the formation of inorganic rings. The effects of the different chalcogens on the formation of the final products will be demonstrated. Furthermore, reactivity studies of selective compounds with small molecules will be presented. In the second part, we will focus on the preparation of different aluminum complexes of bis(diphenylchalcogenophosphinoyl)triazoles $[Ph_2P(E)]_2(C_2N_3)H$ ($E = O, S, Se$). Neutral and ionic complexes can be obtained from these reactions depending on the aluminum reagent.

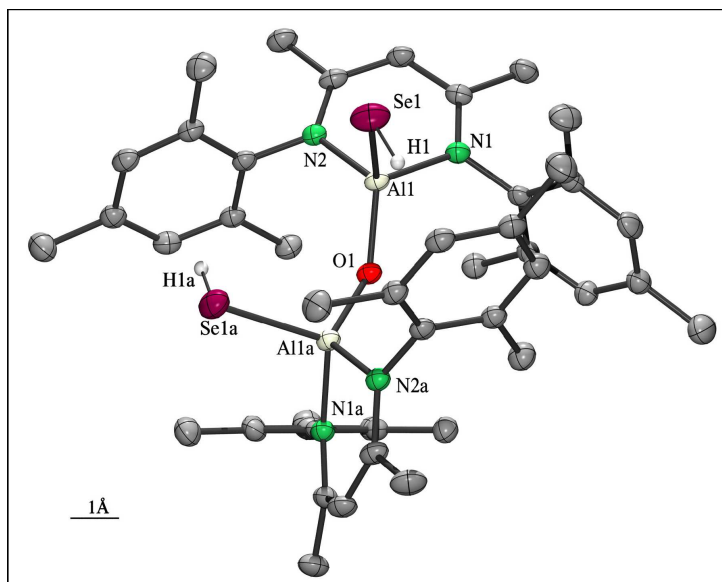


Figure 1: Crystal structure of $[LAl(SeH)]_2O$