

Supporting Information

Trinuclear pyridyl functionalised hydroxylamino complexes of aluminium, gallium and indium

Benjamin J. Hellmann, Andreas Mix, Beate Neumann, Hans-Georg Stammer and Norbert W. Mitzel*

Lehrstuhl für Anorganische Chemie und Strukturchemie, Universität Bielefeld, Universitätsstraße 25, 33615 Bielefeld, Germany, E-mail: mitzel@uni-bielefeld.de – Homepage: www.uni-bielefeld.de/chemie/ac3/ak-mitzel/start.html

Additional NMR spectra of compounds **1**, **2** and **3** at various temperatures and in different solvents are given.

[Al(CH₃)₂ON(C₂H₄-*o*-py)₂ · 2 AlMe₃] (**1**):

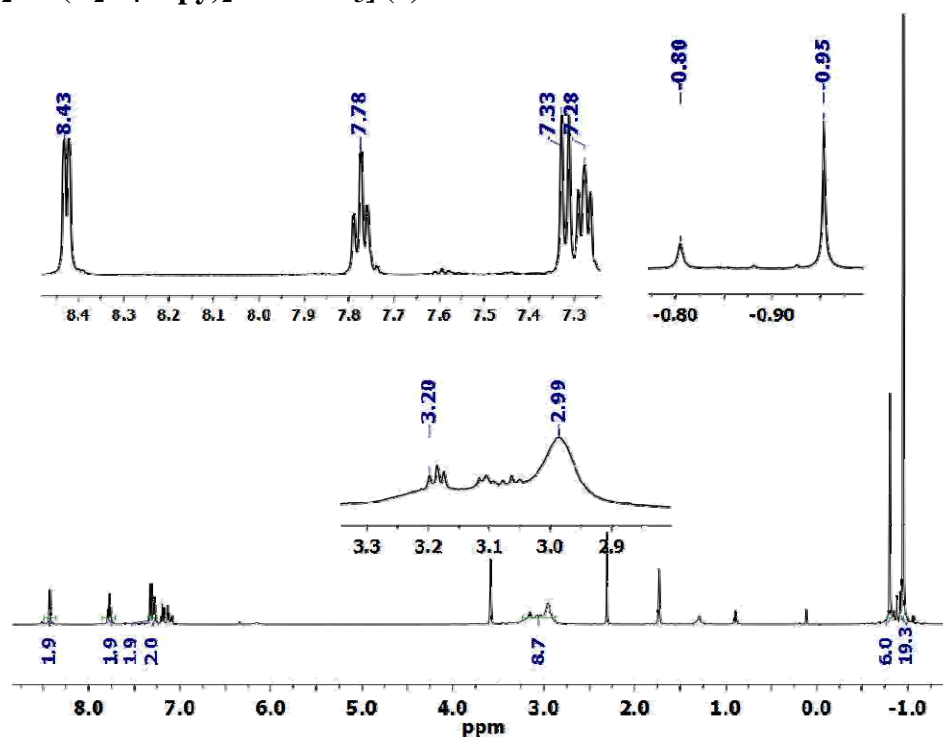


Figure 1: ¹H NMR spectrum in [D₈]thf of **1** at rt.

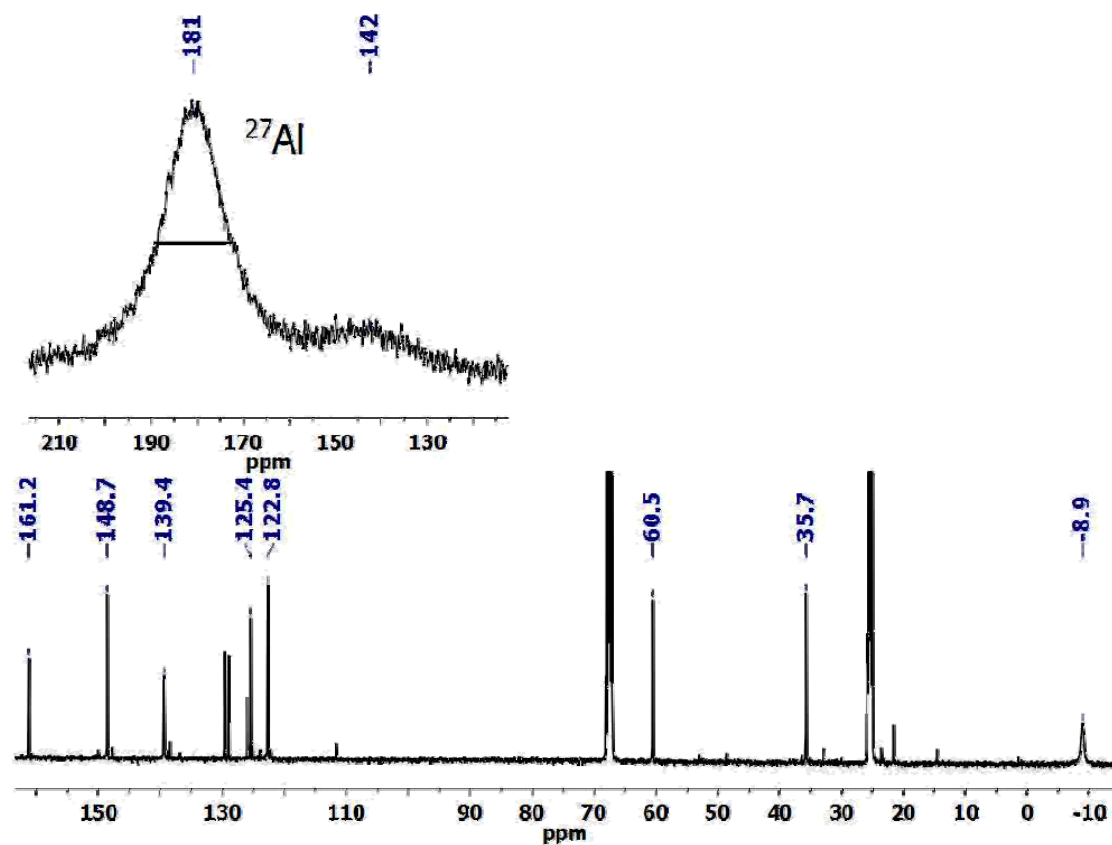


Figure 2: ²⁷Al and ¹³C NMR spectra in [D₈]thf of **1** at rt.

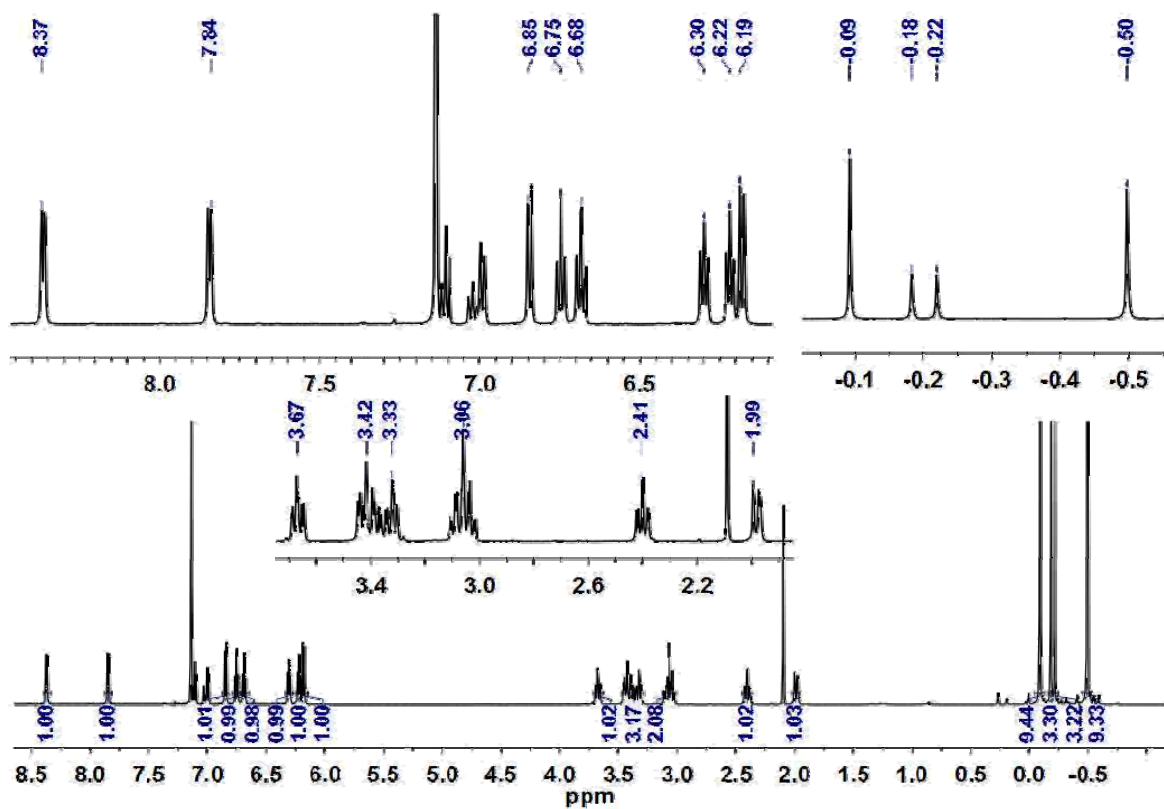


Figure 3: ¹H NMR spectra in [D₆]benzene of **1** at rt.

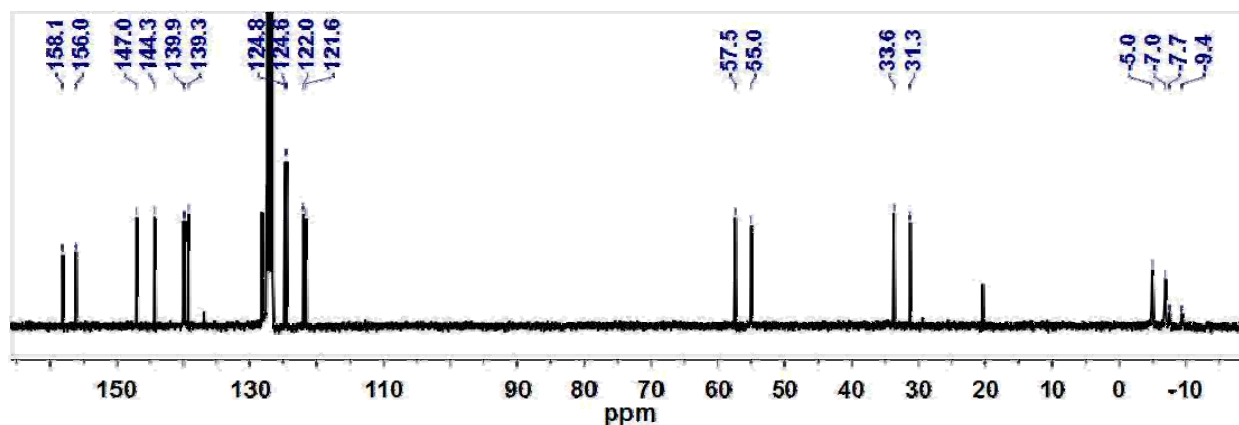


Figure 4: ^{13}C NMR spectra in $[\text{D}_6]$ benzene of **1** at rt.

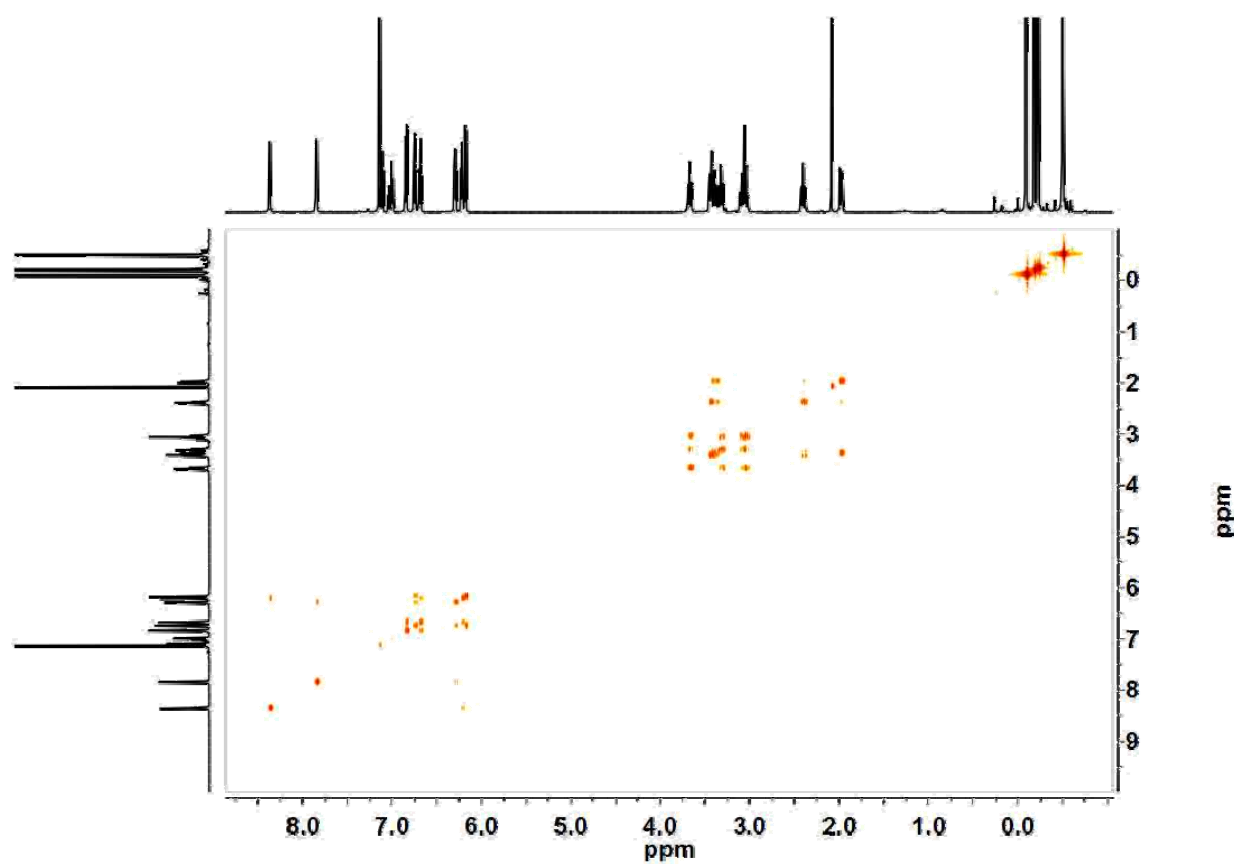


Figure 5: ^1H - ^1H COSY NMR spectra in $[\text{D}_6]$ benzene of **1** at rt.

[Ga(CH₃)₂ON(C₂H₄-*o*-py)₂ · 2 AlMe₃] (2):

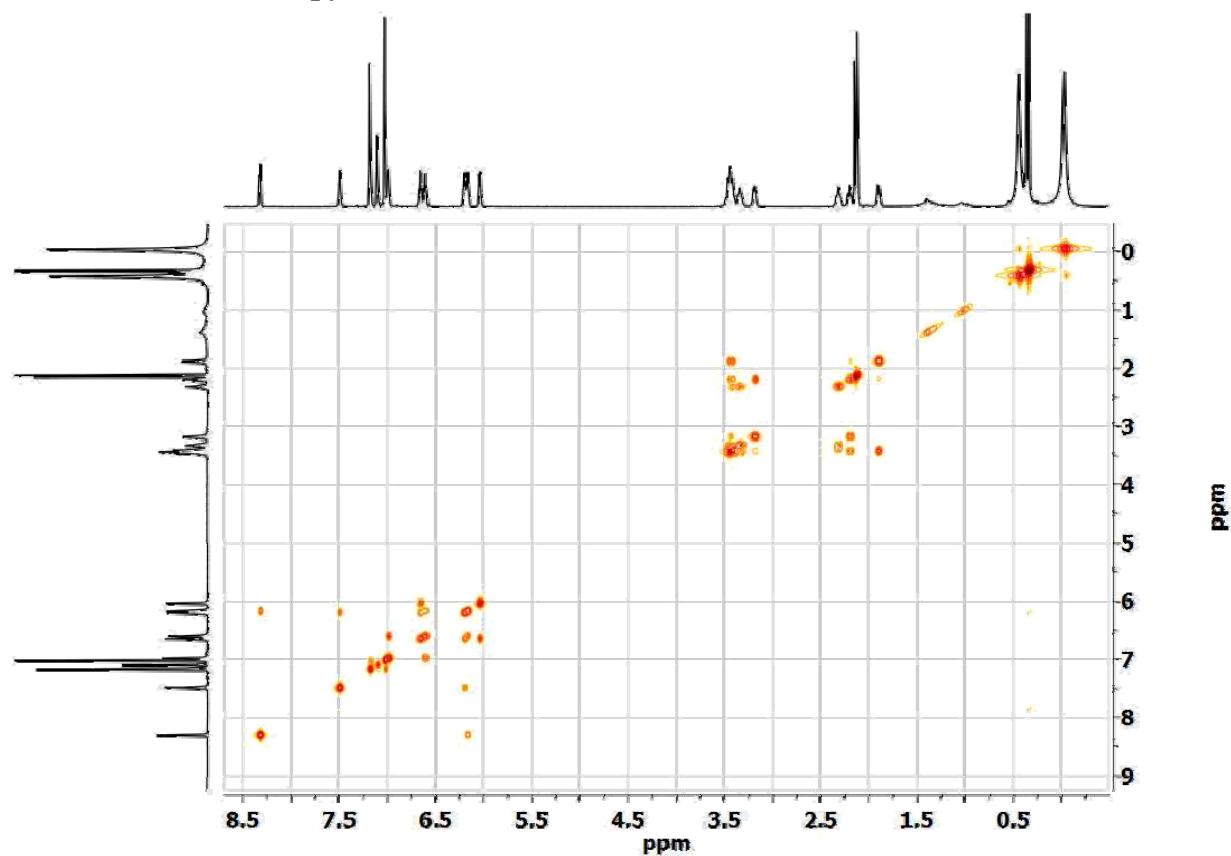


Figure 6: ¹H-¹H COSY NMR spectra in [D₈]toluene of **2** at -60° C.

[In(CH₃)₂ON(C₂H₄-*o*-py)₂ · 2 InMe₃] (3):

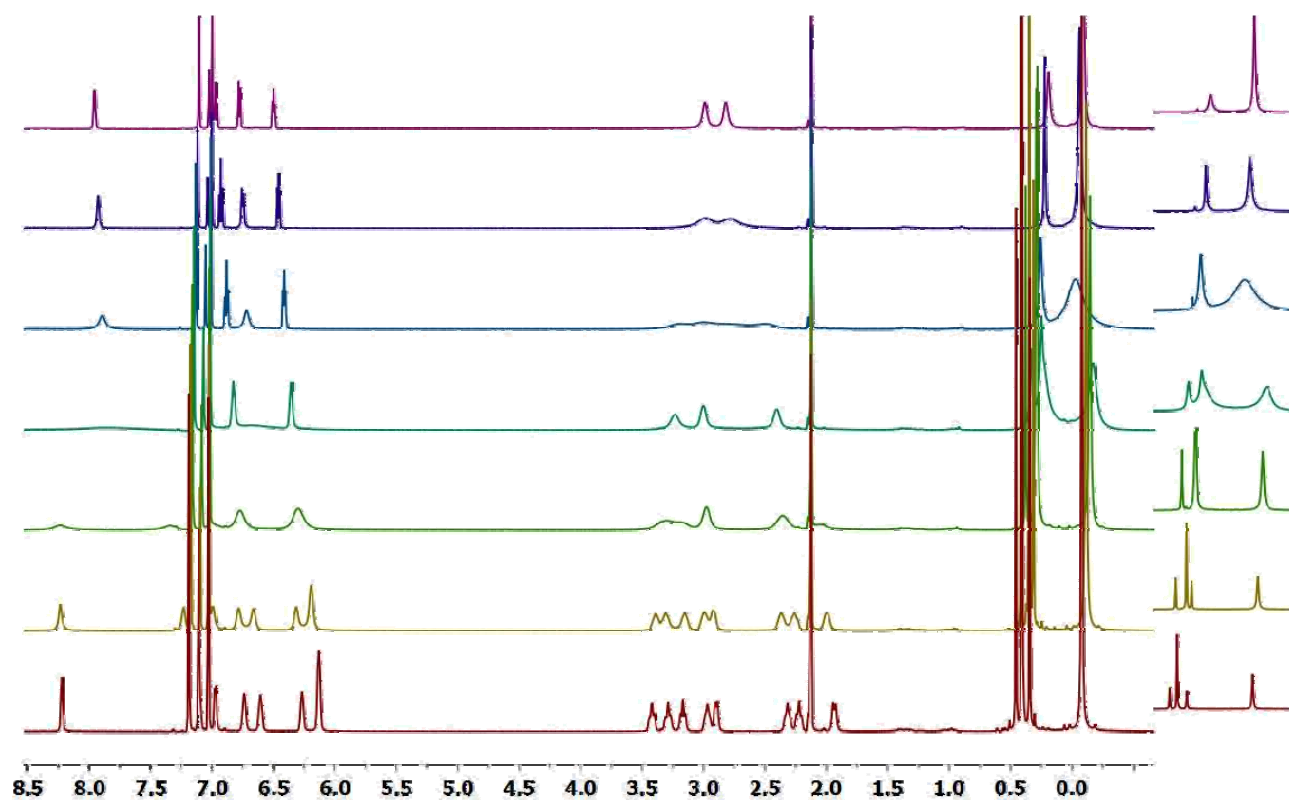


Figure 7: VT ¹H NMR spectra in [D₈]toluene of **3** at from 60° C to -60° C. For clarity a section of the spectra from 0.5 to -0.3 ppm can be found expanded on the right side.