



Supporting Information

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In situ NMR Spectroscopic Observation of a Catalytic Intermediate in Phosphine Catalyzed Cyclo-oligomerization of Isocyanates

This paper is dedicated to the 70th birthday of Dr. Josef Pedain.

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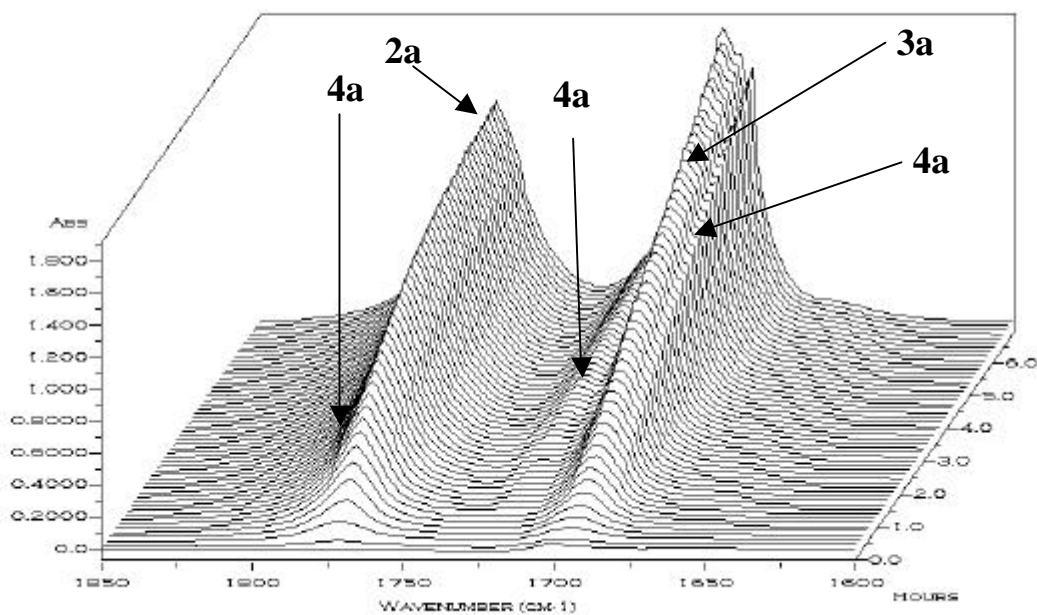


Figure 1. *In situ* IR spectra of the cyclo-oligomerization of 31.1 mmol n-BuNCO (**1a**) in the presence of 4.0 mmol PBU₃ (**5**) at 20°C.

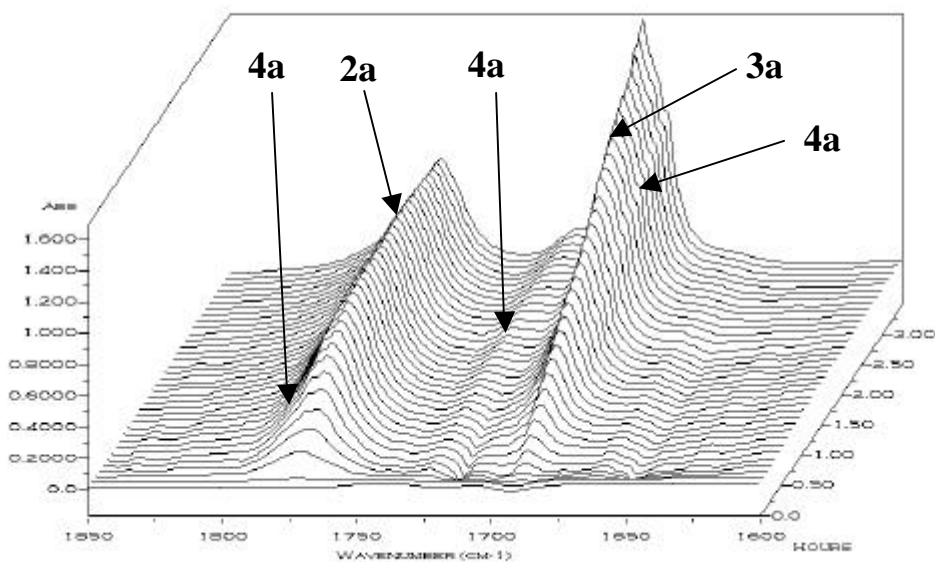


Figure 2. *In situ* IR spectra of the cyclo-oligomerization of 31.1 mmol n-BuNCO (**1a**) in the presence of 4.0 mmol PBU₃ (**5**) at 60°C.

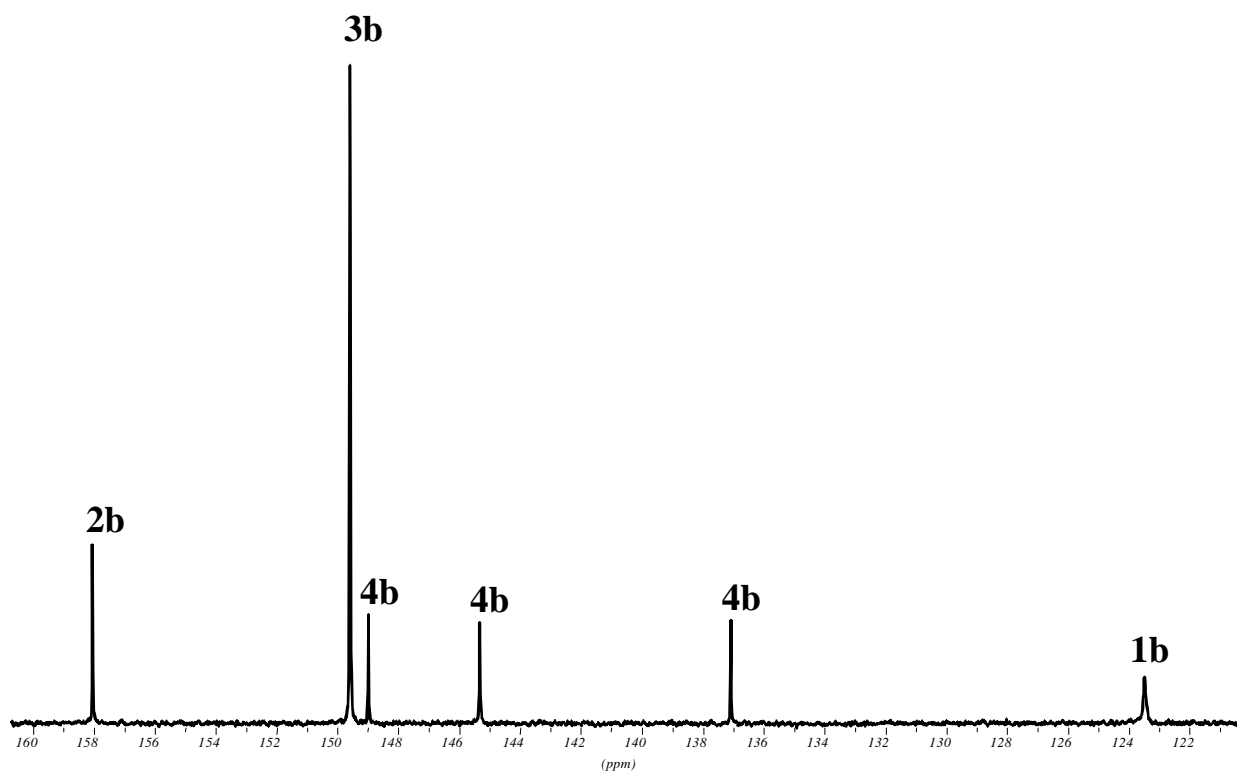


Figure 3. $^{13}\text{C}\{^1\text{H}\}$ -NMR spectrum of the reaction mixture of the cyclo-oligomerization of 3.43 mmol n-HexNCO (**1b**) in the presence of 0.18 mmol PBU_3 (**5**) at 25°C after 1 week.

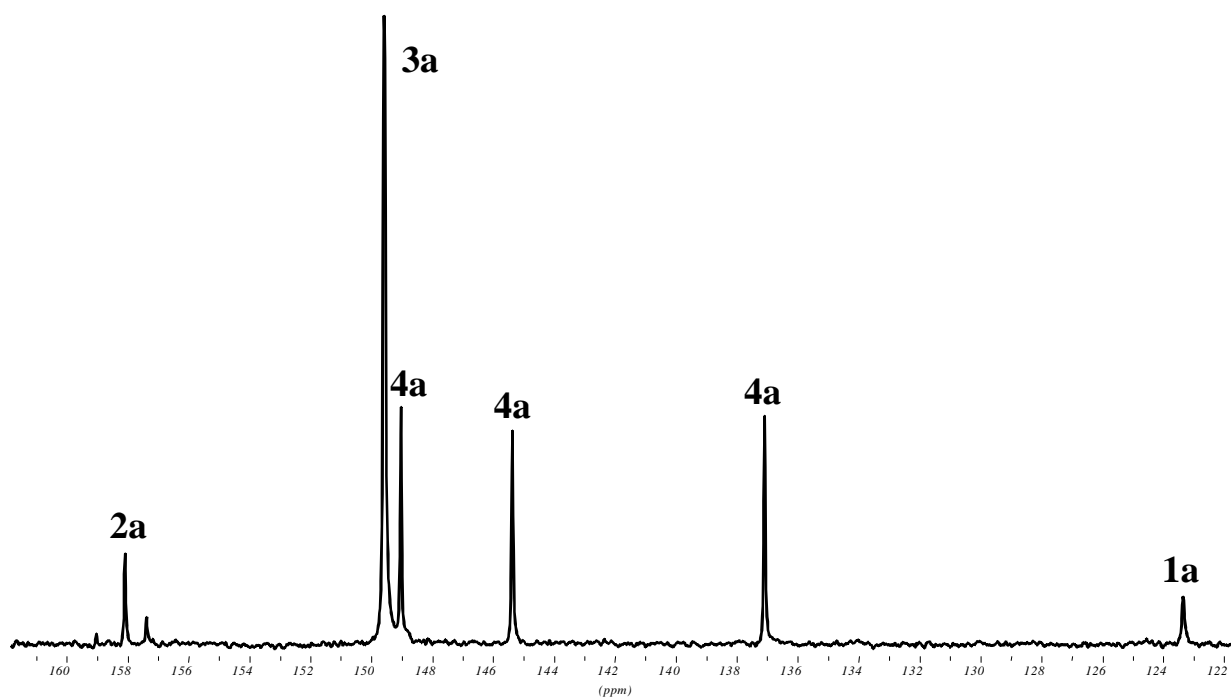


Figure 4. $^{13}\text{C}\{^1\text{H}\}$ -NMR spectrum of the reaction mixture of the reaction of 2.44 mmol **2a** with 0.244 mmol PBU_3 (**5**) at 25°C after 1 week.

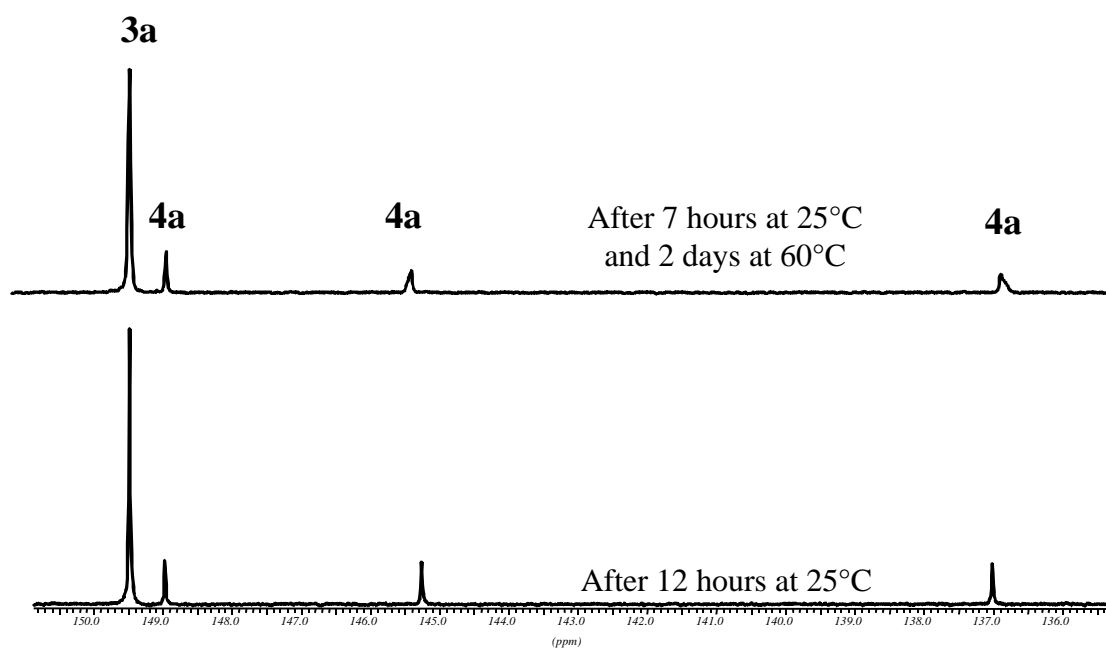


Figure 5. $^{13}\text{C}\{^1\text{H}\}$ -NMR spectrum of the reaction mixture of the attempted reaction of 1.2 mmol **3a** and 0.54 mmol **4a** with 0.08 mmol PBU_3 (**5**) at 25°C.