

Supplementary Material

A Step Too Far? Assessment of the Boroxide Ligand in Ring-Opening Polymerization

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Figure S1 ^1H NMR spectrum of $[\text{Mg}\{\text{OB}(\text{mes})_2\}\text{Me}(\text{THF})]_2$ (**5**) (crude, C_6D_6 - with residual Et_2O present).

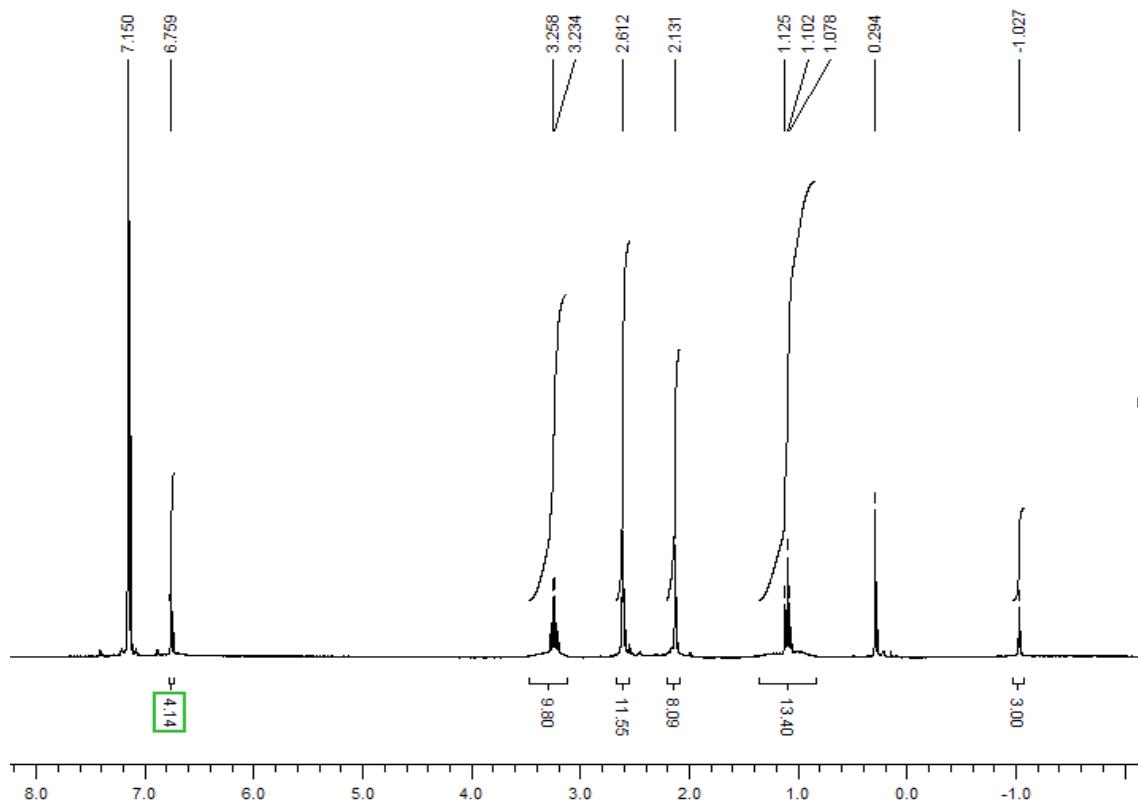


Figure S2 ^{13}C NMR spectrum of $[\text{Mg}\{\text{OB}(\text{mes})_2\}\text{Me}(\text{THF})]_2$ (**5**) (crude, C_6D_6 - relatively insoluble, *i*-C of mes not detected).

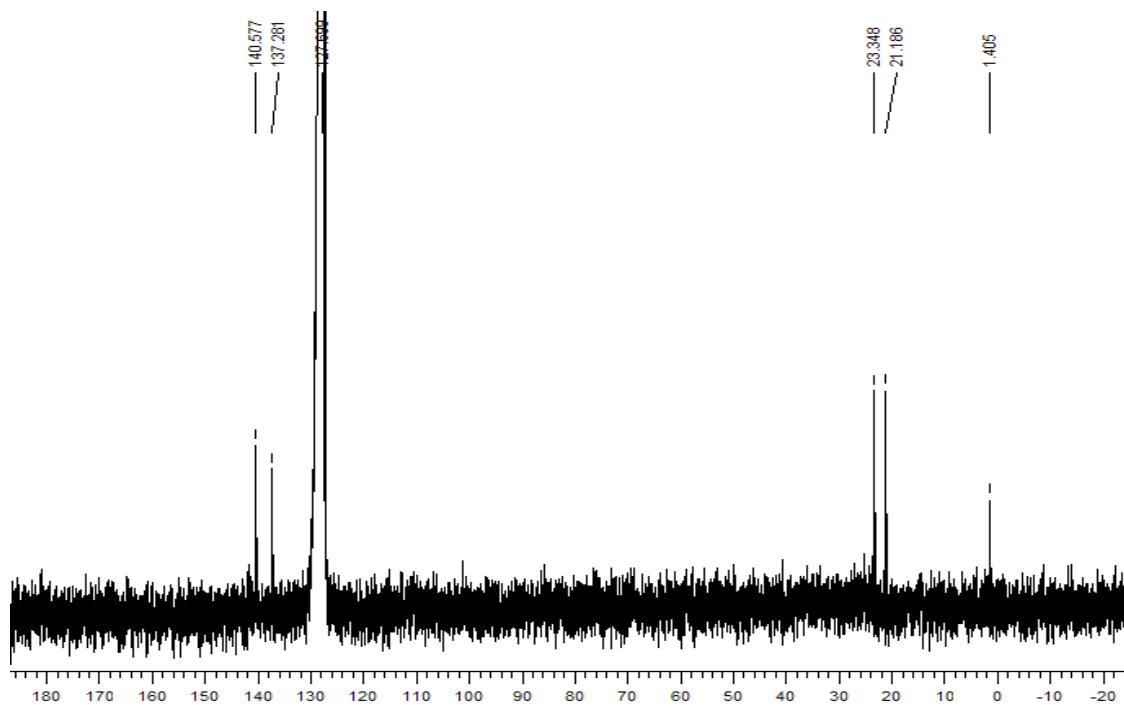


Figure S3 ^1H NMR spectrum of $[\text{Mg}\{\text{OB}(\text{mes})_2\}\text{Me}(\text{THF})]_2$ (**5**) (CD_2Cl_2).

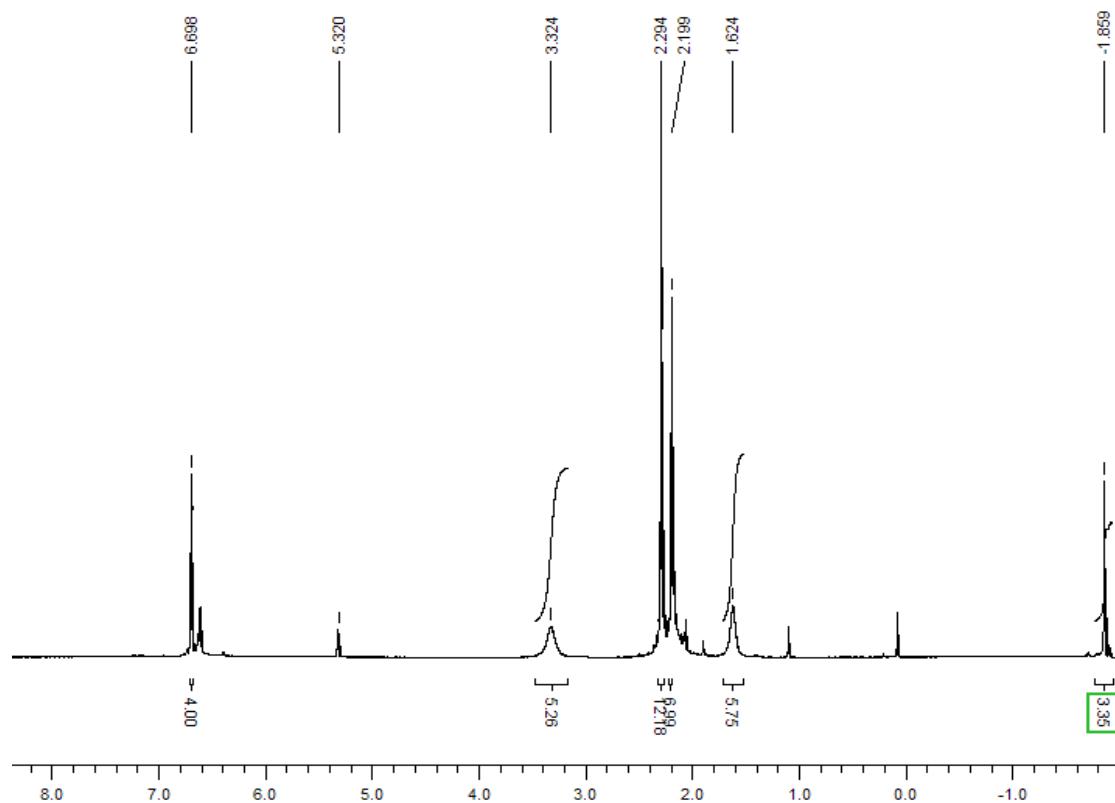


Figure S4 ^{13}C NMR spectrum of $[\text{Mg}\{\text{OB}(\text{mes})_2\}\text{Me}(\text{THF})]_2$ (**5**) (CD_2Cl_2).

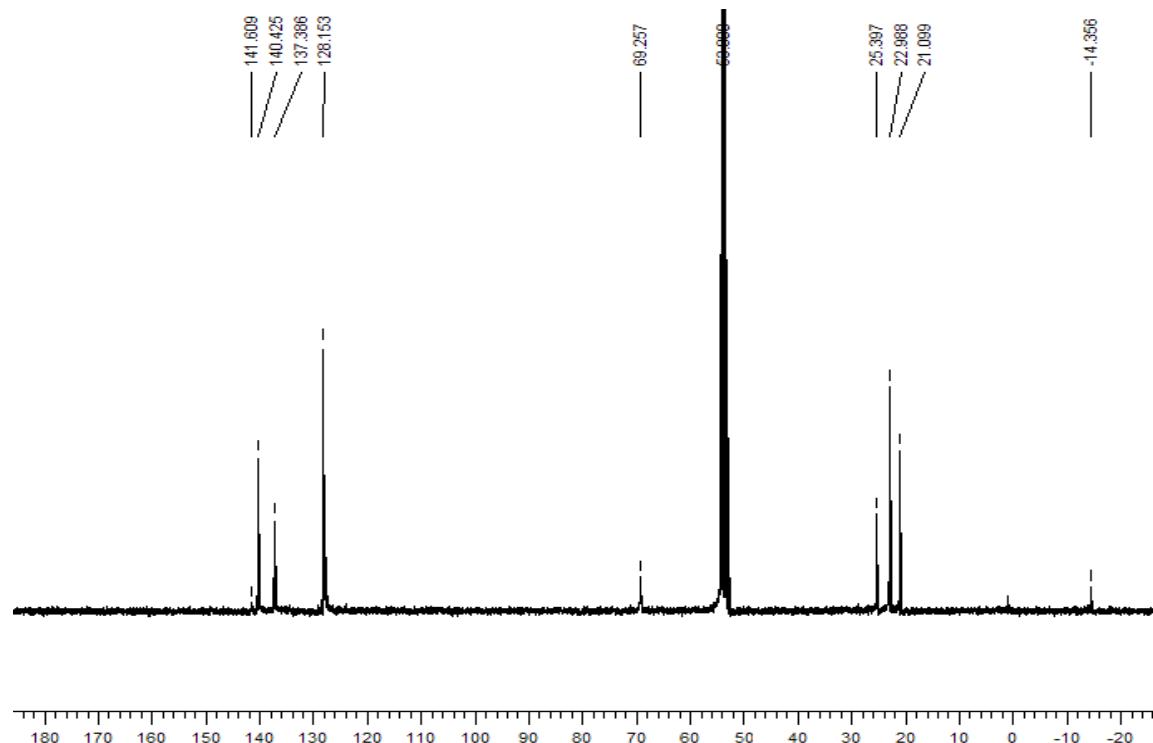


Figure S5 ^1H NMR spectrum of $[\text{Mg}\{\text{OB}(\text{mes})_2\}^n\text{Bu}(\text{THF})]_2$ (**6**) (C_6D_6 - recrystallized sample).

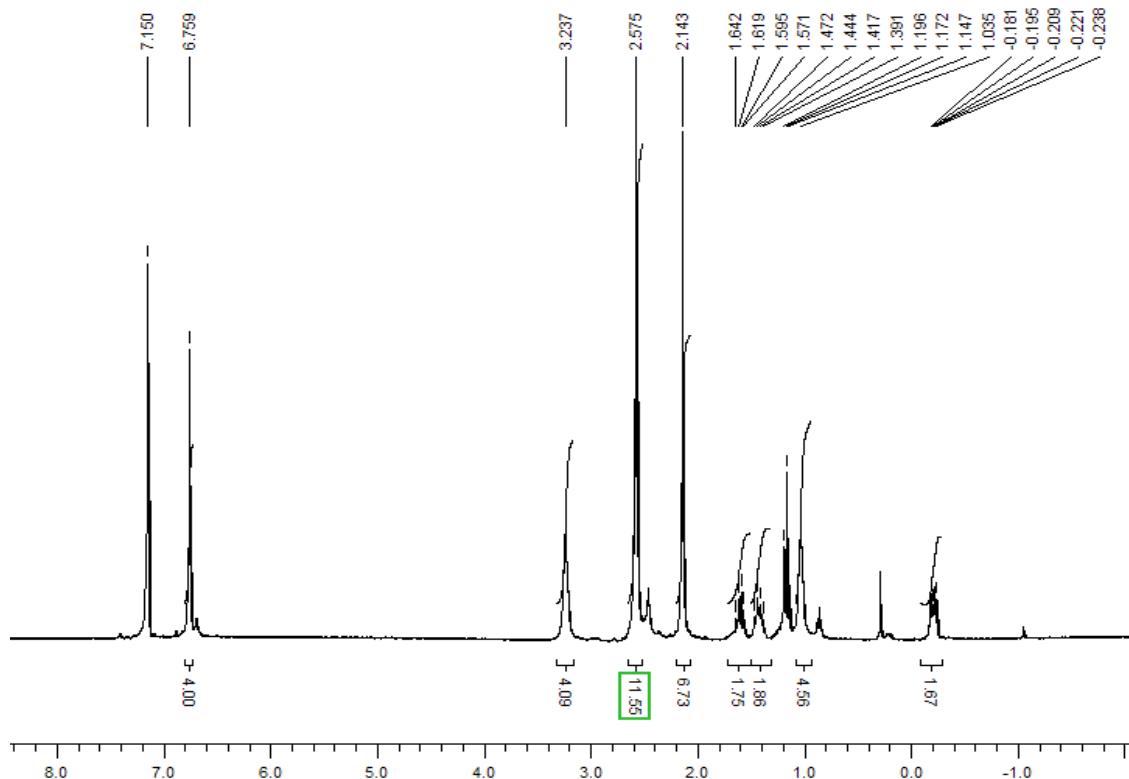


Figure S6 ^{13}C NMR spectrum of $[\text{Mg}\{\text{OB}(\text{mes})_2\}^n\text{Bu}(\text{THF})]_2$ (**6**) (C_6D_6 - recrystallized sample).

