

Supporting Info

for

New insights into the catalytic activity of second generation Hoveyda-Grubbs complexes having phenyl substituents on the backbone

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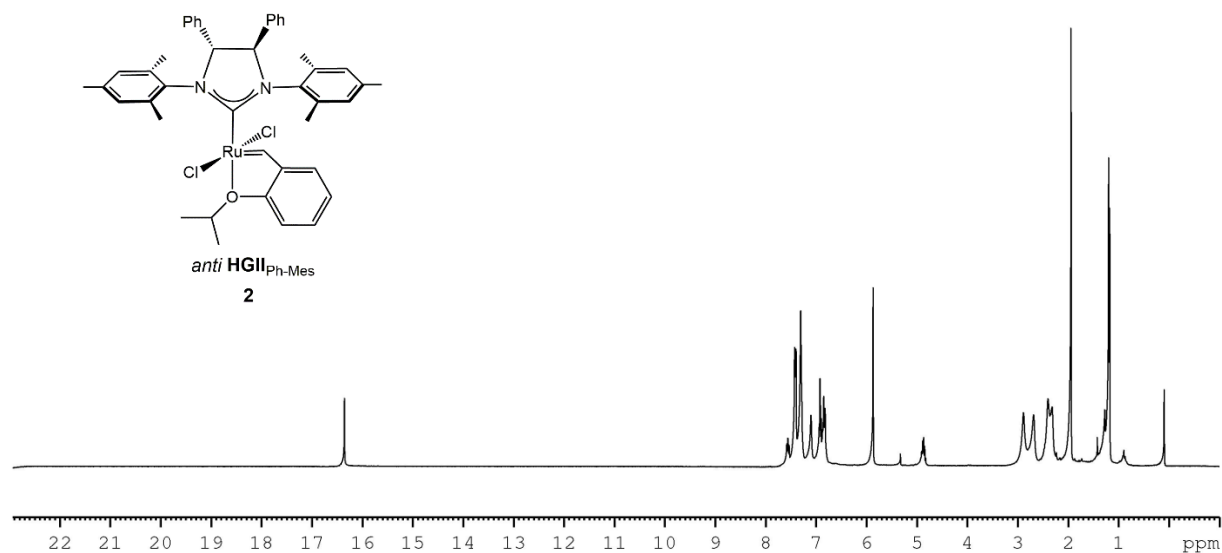


Figure S1. ^1H NMR (300 MHz, CD_2Cl_2): δ 16.3₅ (s, 1H, Ru=CHPh); 7.5₇-6.8₄ (m, 18H, aromatic carbons); 5.8₆ (s, 2H, N(CHPh)₂N); 4.8₇ (septet, 1H, (CH₃)₂CHOAr); 2.8₈-1.1₈ (24H, OCH(CH₃)₂ + 6xCH₃ mesityl).

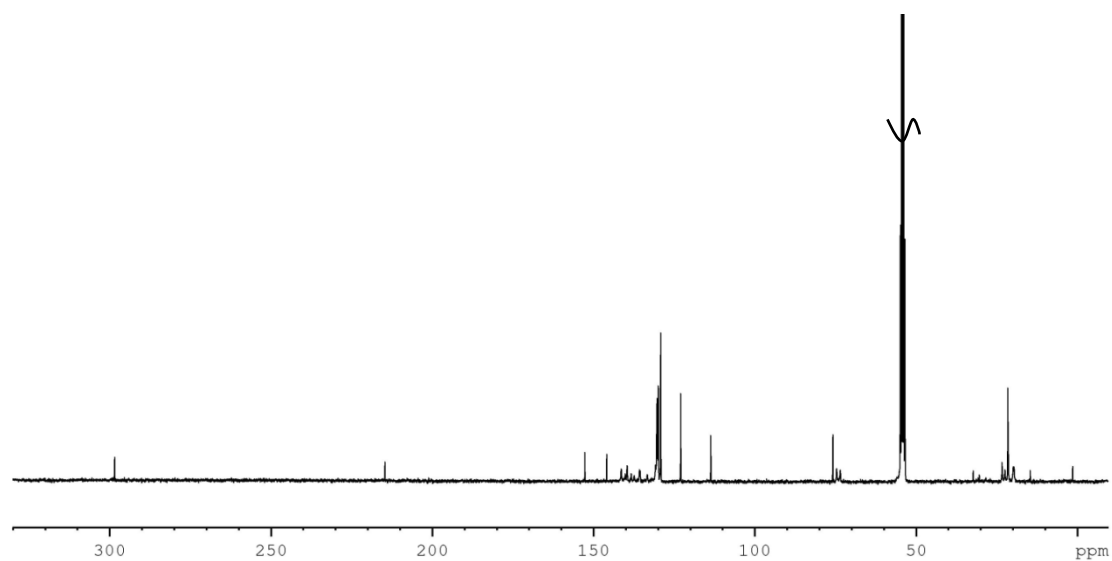


Figure S2. $^{13}\text{C}\{^1\text{H}\}$ NMR (100 MHz, CD_2Cl_2): δ 298.3 (Ru=CH-*o*OiPrC₆H₄); 214.5 (NCN), 152.5; 145.7; 141.3; 140.0; 139.4; 138.1; 137.2; 135.6; 133.2; 130.6; 130.2; 130.1; 129.9; 129.7; 129.0; 122.8; 113.4; 75.6 (OC(CH₃)₂); 74.5 (N(CHPh)₂N); 73.4 (N(CHPh)₂N); 32.1; 23.2; 22.2; 21.3; 19.7; 19.4 (methyl groups).

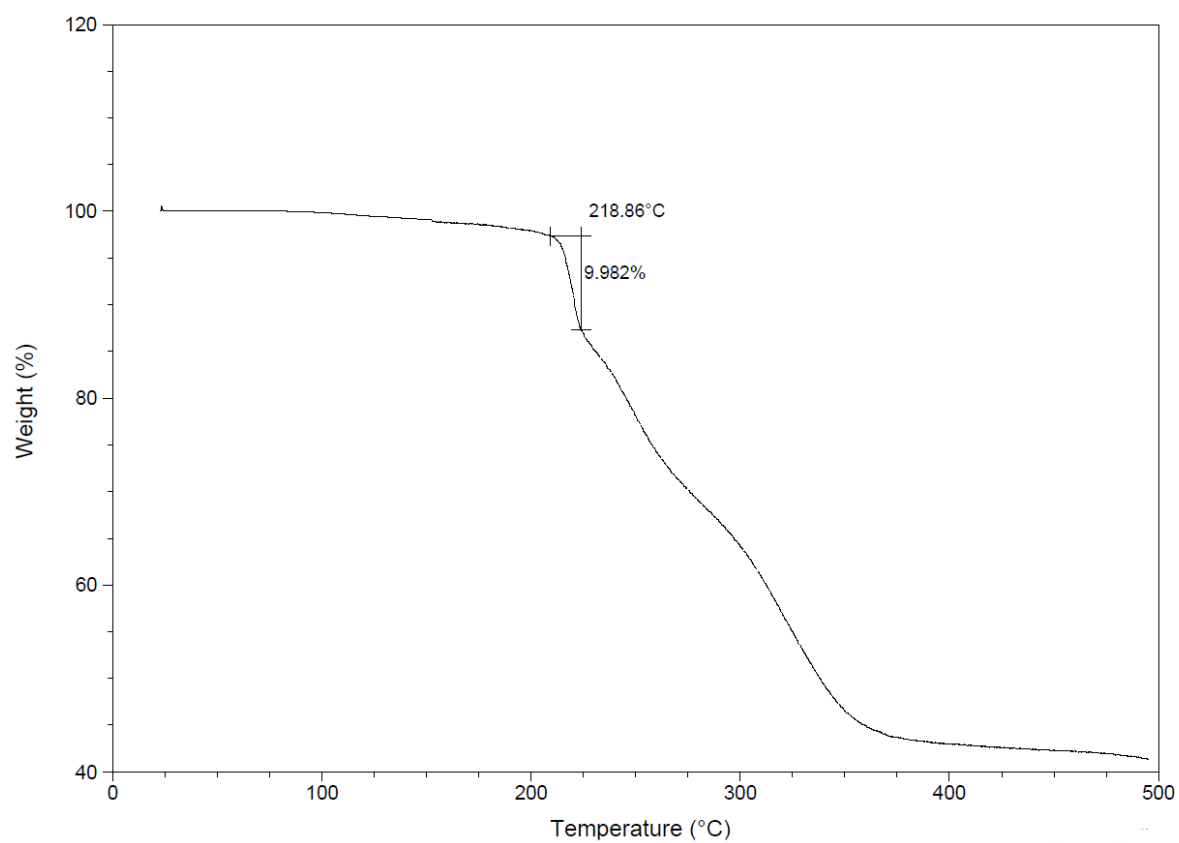


Figure S3. Thermogravimetric analysis (TGA) of HGII.

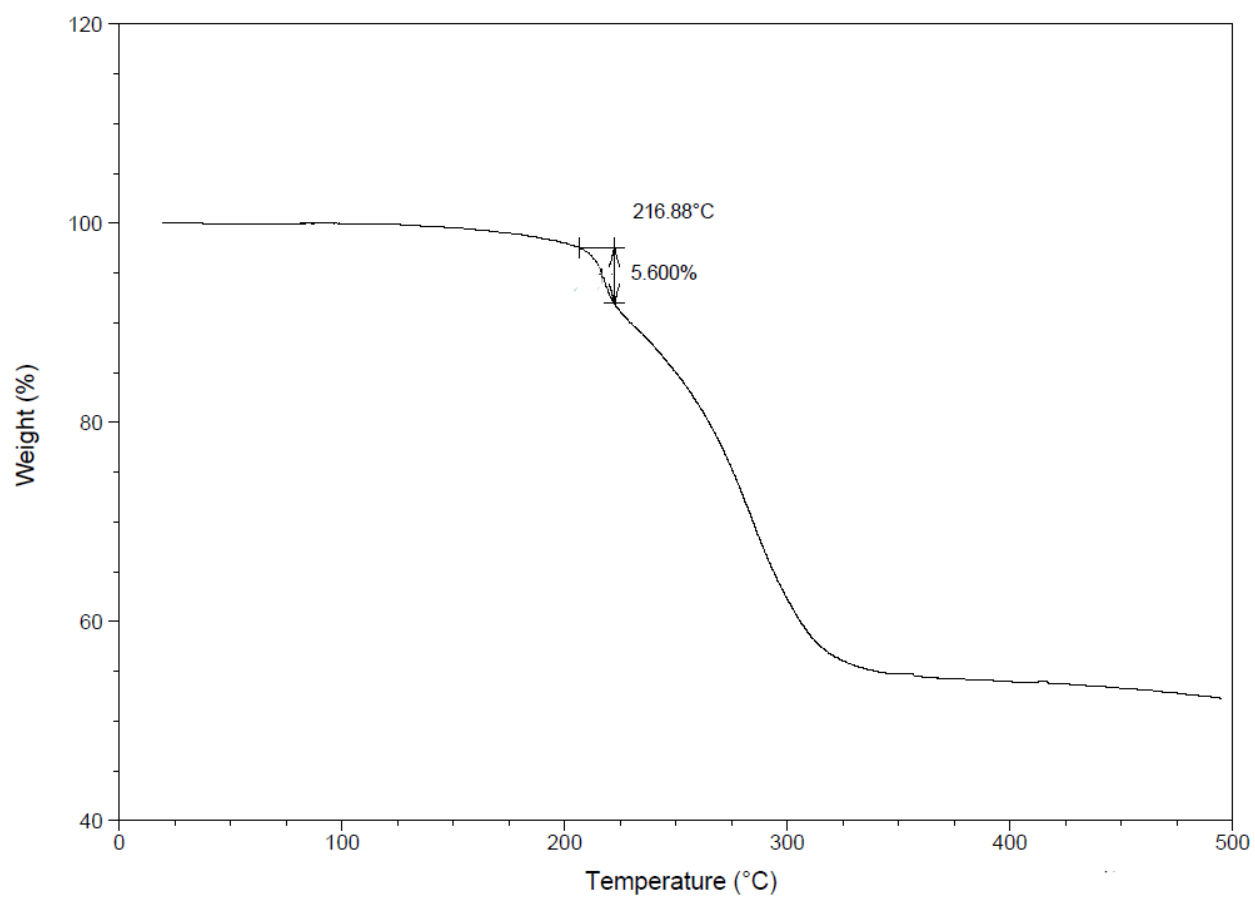


Figure S4. Thermogravimetric analysis (TGA) of HGII_{Ph-Mes}.

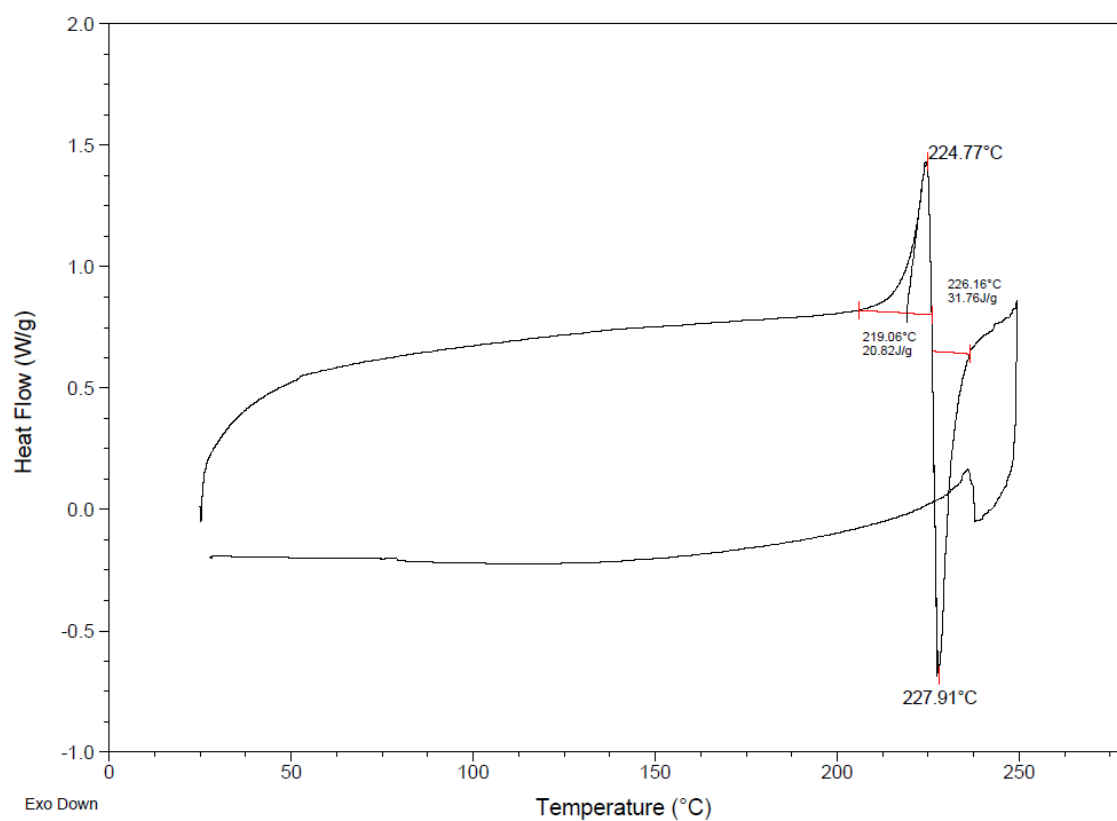


Figure S5. Differential scan calorimetry analysis (DSC) of HGII.

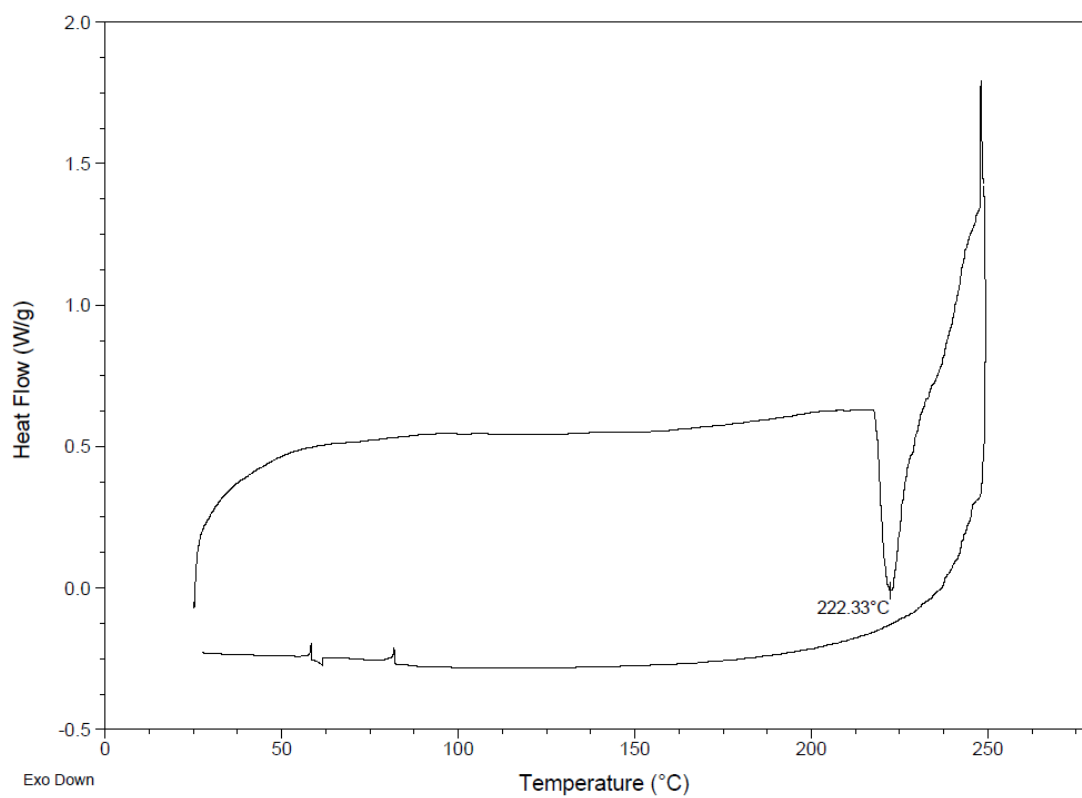


Figure S6. Differential scan calorimetry analysis (DSC) of HGII_{Ph-Mes}.