Electronic Supplementary Material (ESI) for Dalton Transactions. This journal is © The Royal Society of Chemistry 2018

Supporting Information

Methylene-bridged Bimetallic Bis(imino)pyridine-Cobaltous Chlorides as Precatalysts for Vinyl-terminated Polyethylene Waxes

Qiang Chen,^{a,b} Wenjuan Zhang,*,a,c Gregory A. Solan,*,a,d Tongling Liang,^a Wen-Hua Sun*,a,b

- ^aKey Laboratory of Engineering Plastics and Beijing National Laboratory for Molecular Sciences, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China. E-mail: whsun@iccas.ac.cn.
- ^b CAS Research/Education Center for Excellence in Molecular Sciences, University of Chinese Academy of Sciences, Beijing 100049, China
- ^c School of Materials Science and Engineering, Beijing Institute of Fashion Technology, Beijing 100029, China
- ^d Department of Chemistry, University of Leicester, University Road, Leicester LE1 7RH, UK. E-mail: gas8@le.ac.uk

Contents

- 1. **Figure S1**. ¹H NMR spectrum of the polyethylene obtained using **Co1**/MAO (run 2, Table 2) in C₂D₂Cl₄ at 100 °C.
- 2. **Figure S2**. ¹H NMR spectrum of the polyethylene obtained using **Co1**/MMAO (run 2, Table 3) C₂D₂Cl₄ at 100 °C
- 3. **Figure S3**. ¹H NMR spectrum of the polyethylene obtained using **Co1**/MMAO (run 7, Table 3) in 1,2-dichlorobenzene-d₄ (100 ° C).

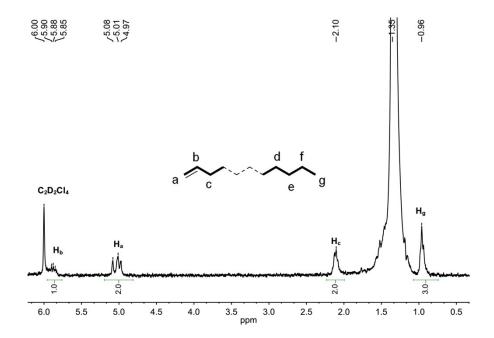


Figure S1. 1 H NMR spectrum ($C_{2}D_{2}Cl_{2}$, 300MHz) of the polyethylene obtained using **Co1**/MAO (run 2, Table 2) at 100 $^{\circ}$ C.

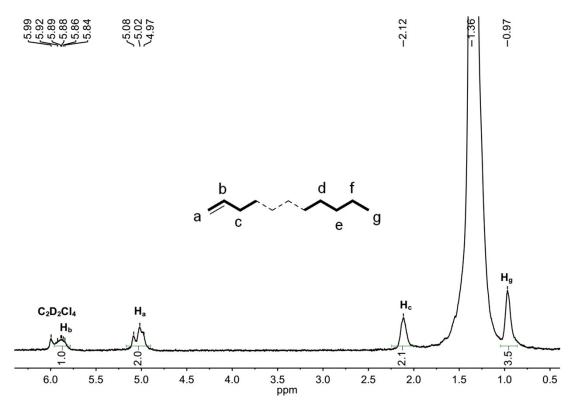


Figure S2. 1 H NMR spectrum ($C_{2}D_{2}Cl_{2}$, 300MHz) of the polyethylene obtained using **Co1**/MMAO (run 2, Table 3) at 100 $^{\circ}$ C.

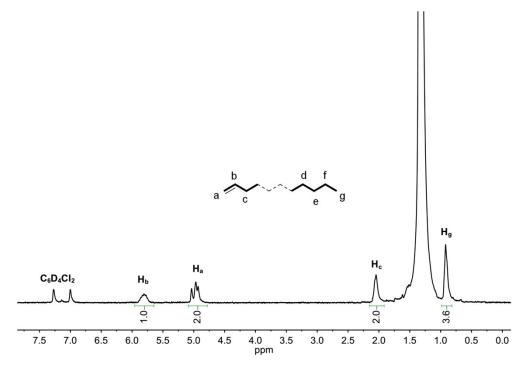


Figure S3 1 H NMR spectrum of the polyethylene obtained using Co1/MMAO (run 7, Table 3) in 1,2-dichlorobenzene-d₄ (100 $^{\circ}$ C) (300MHz)