## **Supporting Information**

Alkoxides of group 4 metals containing the bis(imino)phenoxide ligand: synthesis, structural characterization and polymerization studies

Tanmoy Kumar Saha, Bijja Rajashekhar and Debashis Chakraborty\*

Department of Chemistry, Indian Institute of Technology Madras, Chennai-600 036, Tamil Nadu, India. E-mail: dchakraborty@iitm.ac.in; Fax: +914422574202; Tel: +914422574223



Fig. S1 <sup>1</sup>H NMR spectrum of L3



Fig. S2 <sup>13</sup>C NMR spectrum of L3



Fig. S3 ESI-MS spectrum of L3



Fig. S4 <sup>1</sup>H NMR spectrum of 1

PROTON (-5to15) \_iitm\_bbo



Fig. S5 <sup>13</sup>C NMR spectrum of 1



Fig. S6 ESI-Mass spectrum of 1



Fig. S7 <sup>1</sup>H NMR spectrum of 2



Fig. S8 <sup>13</sup>C NMR spectrum of 2

## Electronic Supplementary Material (ESI) for RSC Advances This journal is The Royal Society of Chemistry 2011



Fig. S9 ESI-Mass spectrum of 2



Fig. S10<sup>1</sup>H NMR spectrum of 3

11



Fig. S11<sup>13</sup>C NMR spectrum of 3



Fig. S12 ESI-Mass spectrum of 3



Fig. S13 <sup>1</sup>H NMR spectrum of 5



Fig. S14<sup>13</sup>C NMR spectrum of 5



Fig. S15 ESI-Mass spectrum of 5



Fig. S16<sup>1</sup>H NMR spectrum of 6

PROTON (-5to15) \_iitm\_bbo



Fig. S17<sup>13</sup>C NMR spectrum of 6



Fig. S18 ESI-mass spectrum of 6



Fig. S19 <sup>1</sup>H NMR spectrum of 7



Fig. S20<sup>13</sup>C NMR spectrum of 7



Fig. S21 ESI-Mass spectrum of 7



Fig. S22 <sup>1</sup>H NMR spectrum of 8



Fig. S23 <sup>13</sup>C NMR spectrum of 8



Fig. S24 ESI-Mass spectrum of 8



Fig. S25 <sup>1</sup>H NMR spectrum of 9



Fig. S26<sup>13</sup>C NMR spectrum of 9



Fig. S27 ESI-Mass spectrum of 9



Fig. S28 <sup>1</sup>H NMR spectrum 10



Fig. S29<sup>13</sup>C NMR spectrum 10



Fig. S30 ESI-Mass spectrum of 10



Fig. S31 Variable temperature <sup>1</sup>H NMR of 1