

## Electronic Supplementary Material

### Polymerization of 1,3-Butadiene Catalyzed by Cobalt(II) and Nickel(II) Complexes Bearing Pyridine-2-imidate Ligands

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**Table S1.** Crystallographic data and structure refinement for ligand **a** and complex **1a**

	<b>a</b>	<b>1a</b>
Formula	C <sub>20</sub> H <sub>26</sub> N <sub>2</sub> O <sub>2</sub>	C <sub>20</sub> H <sub>26</sub> Br <sub>2</sub> CoN <sub>2</sub> O <sub>2</sub>
Fw	326.43	545.18
Color	yellow	green
Cryst. Syst.	triclinic	monoclinic
Space group	P-1	P21/n
<i>a</i> , (Å)	10.7891 (8)	10.9357 (7)
<i>b</i> , (Å)	13.0232 (9)	16.0601 (10)
<i>c</i> , (Å)	15.2810 (11)	12.5508 (8)
$\alpha$ , (deg)	107.233 (1)	90
$\beta$ , (deg)	108.803 (1)	94.681 (1)
$\gamma$ , (deg)	93.494 (2)	90
<i>V</i> , Å <sup>3</sup>	1912.0 (2)	2196.9 (2)
<i>Z</i>	4	4
<i>T</i> , K	188	188
<i>D</i> <sub>calcd</sub> , (g cm <sup>-3</sup> )	1.134	1.648
$\mu$ (Mo K $\alpha$ ), (mm <sup>-1</sup> )	0.07	4.43
<i>F</i> (000)	704	1092
$\theta$ <sub>range</sub> , (deg)	1.5–25.1	2.1–26.0
no. of rflns collected	9609	11556
no. of indep rflns	6655	4319
data/ restraints /params	6655/0/433	4319/0/ 244
Goodness of fit	0.836	0.851
R <sub>1</sub> ( <i>I</i> > 2 $\sigma$ ( <i>I</i> ))	0.060	0.028
wR <sub>2</sub>	0.254	0.075

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