

## Coordinating Effect in Ring-opening Polymerization of $\epsilon$ -Caprolactone Using Aluminum Complexes Bearing Bisphenolate as Catalysts

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**Electronic Supplementary Information Available:** Polymer characterization data, and details of the kinetic study.

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Kinetic study of CL polymerization with various Al complexes in toluene 5 mL, [CL]  
= 2.0 M at 50 °C

Time min	Conversion of PCL (%)									
	FCl	o-Br	o-Cl	o-OMe	o-F	Me	H	p-F	p-OMe	p-Br
8	34									
10	45	23		21	22	16	21	15	9	16
14	63									
18	78									
20		53	63	38	35	31	38	26	19	21
22	88									
30	96	73	76	58	50	47	53	37	27	30
40		86	84	68	59	59	62	46	34	37
50		94		76	67	71	70	56		46
60		97	90		73	76	77	65	45	50
70			93		84	82		71	55	
80			95		90	87		74		61
90						90		81	64	
100								84		67
110								86	70	
120								90		
130								92	77	
$k_{obs}$ $\times 10^4$ (error)	1298 (49)	659 (3)	319 (15)	304 (12)	279 (23)	270 (5)	245 (4)	197 (5)	114 (2)	109 (2)
Induction period <sup>1</sup>	6.00 (7)	8.00 (181)	11.00 (566)	3.00 (126)	6.00 (418)	6.00 (105)	0	6.00 (185)	3.00 (158)	0

<sup>1</sup> Induction period (min): Pre-catalyst (LAlMe) must undergo a transformation to product the active catalyst (LAlOBn).

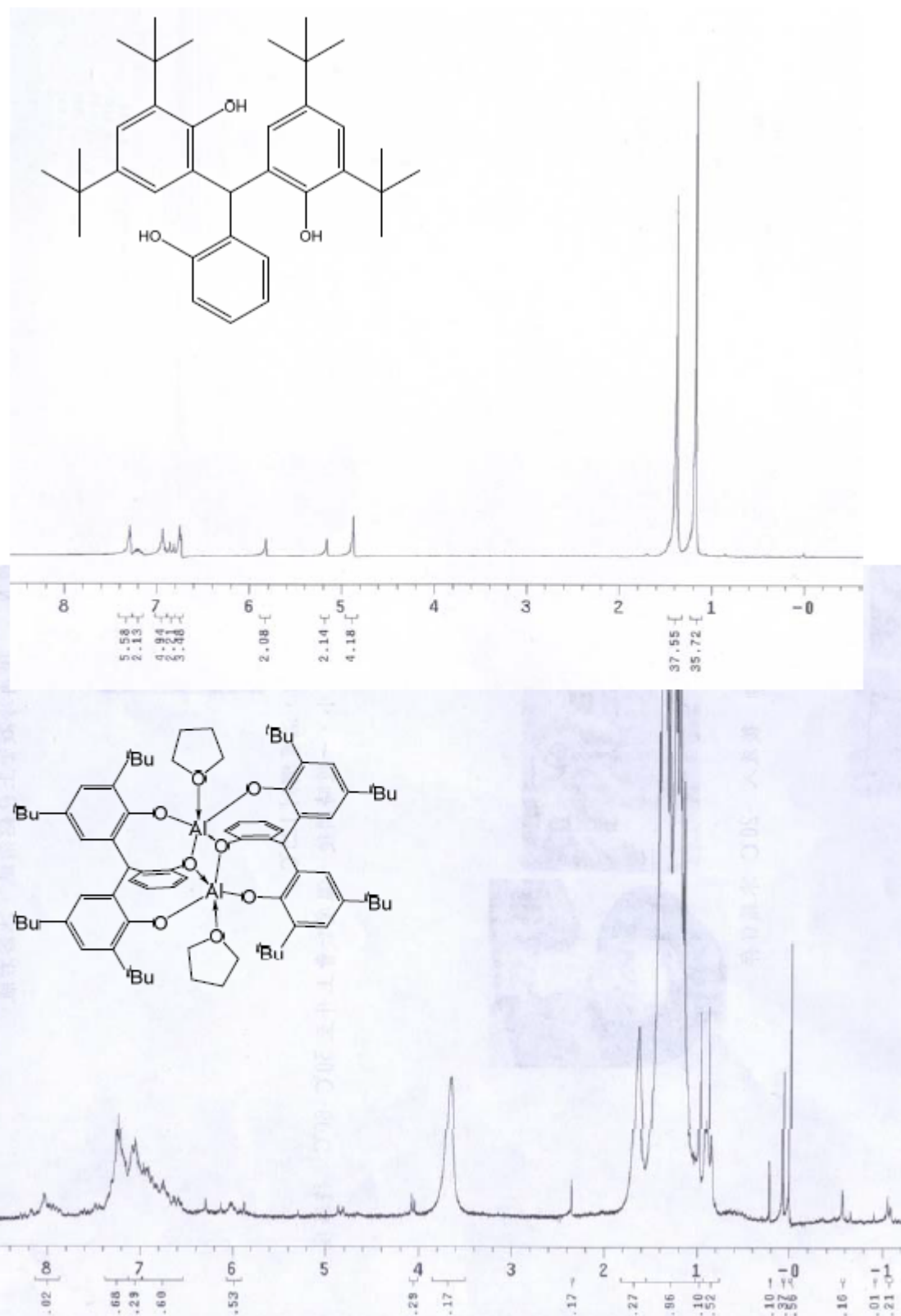


Figure S1.  $^1\text{H}$  NMR spectra of TriO-H and TriO<sub>2</sub>Al<sub>2</sub>