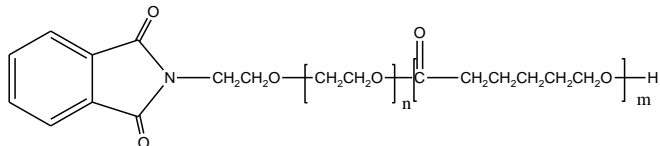


Sample Name:

**Phthalimide end functionalized Poly(ethylene oxide-b-caprolactone)**

Sample #: **P40581- PhthIm-EG-CL**

Structure:



Composition:

Mn x 10 <sup>-3</sup> PhthIm- EG-b-PCL	PDI	functionality
12.0-b-22.0	1.4	>99%

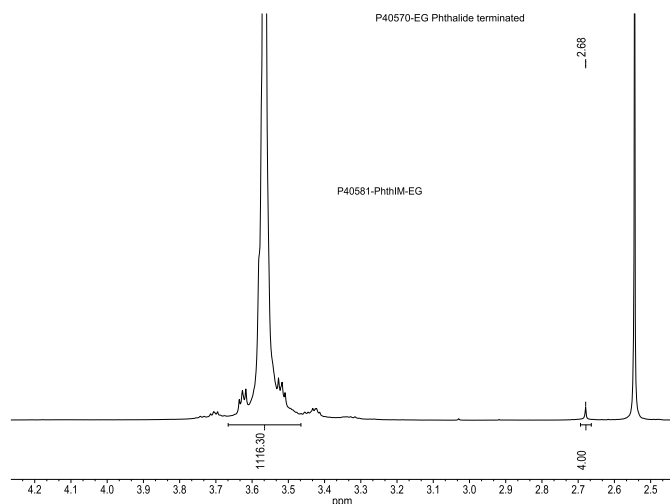
Synthesis Procedure:

The polymer was synthesized by combination of anionic and coordination ring opening polymerization process.

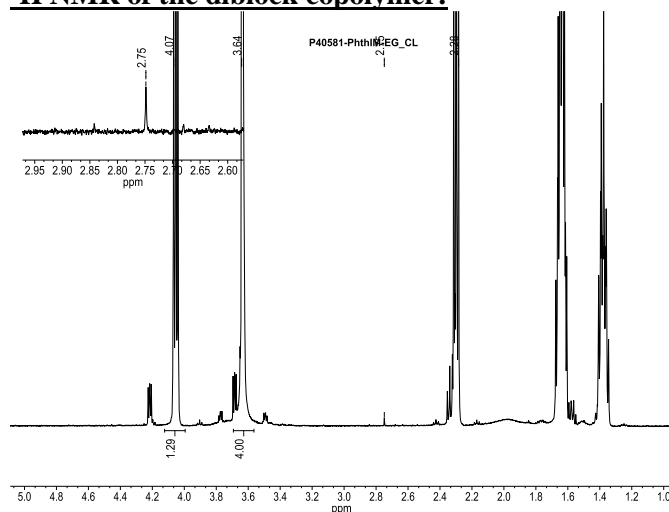
Characterization:

Polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The end functionality was calculated from <sup>1</sup>H-NMR spectroscopy.

**<sup>1</sup>H-NMR spectrum of  $\alpha$ -Phthalamide end functionalized PEG:**



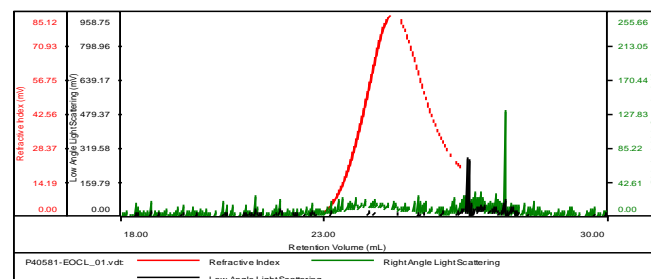
**<sup>1</sup>H NMR of the diblock copolymer:**



**SEC elugram of the block copolymer:**

**P40581-PhthIM-EG-CL**

Concentration (mg/mL)	5.6653
Sample dn/dc (mL/g)	0.0500
Method File	PS80K-Feb2017-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40581-EOCL_01.vdt	34,158	48,916	1.432	0.2714	27,350