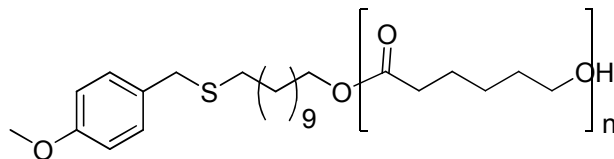


Sample Name: α -Methoxybenzylthio- ω -Hydroxy terminated Poly(ϵ -caprolactone)

Sample #: P20028-CL-SR

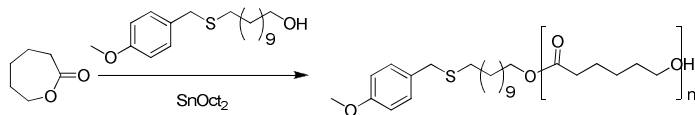
Structure:



Composition (NMR):

$M_n \times 10^3$ RS-PCL	PDI
5.1 (NMR)	
5.6 (SEC-LS)	1.1
SR functionality $\geq 95\%$	

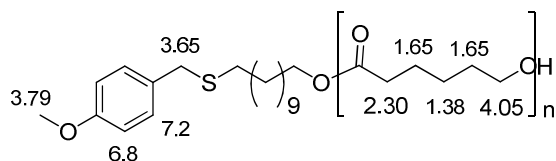
Synthetic Procedure: RS-PCL, bearing a methoxybenzyl protected thiol moiety, is prepared by ring-opening polymerization of ϵ -caprolactone according to the scheme illustrated below:



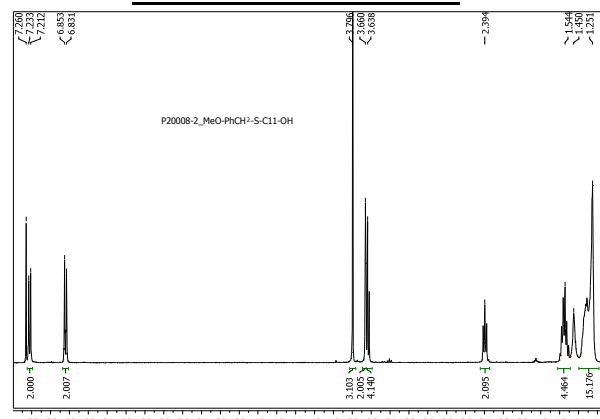
Characterization: PCL bearing a protected thiol end group was analyzed by size exclusion chromatography (SEC) to obtain the polydispersity index (PDI). M_n was calculated from $^1\text{H-NMR}$.

Solubility: Poly(ϵ -caprolactone) is soluble in CHCl_3 , Acetone, THF. Precipitated from Acetone or CHCl_3 into hexane/EtOH or ether/EtOH.

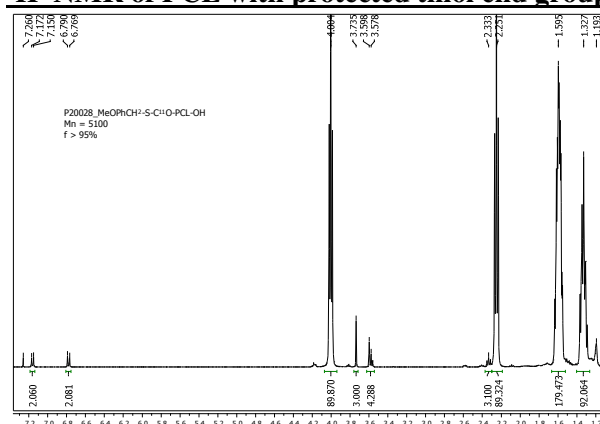
Chemical shifts assignments



$^1\text{H-NMR}$ of the Initiator:



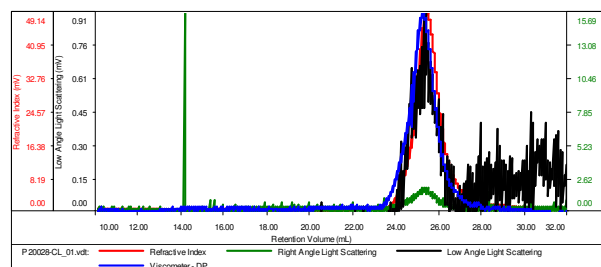
$^1\text{H-NMR}$ of PCL with protected thiol end group



SEC of the polymer:

Sample ID: P20028-CL

Concentration (mg/mL)	2.6948
Sample dn/dc (mL/g)	0.0750
Method File	PS80K-Feb10-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	M_n	M_w	M_p	M_w/M_n	IV
P20028-CL_01.vdt	5,637	6,177	4,659	1.096	0.2915