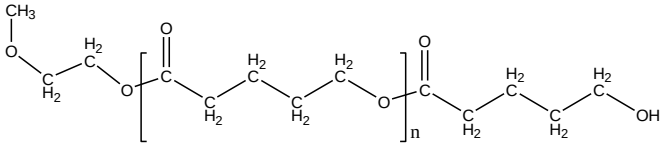
Sample Name: Poly(δ-Valerolactone)

Sample #: P18711C-VLOCH3

Structure:



Composition:

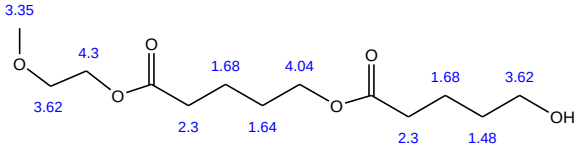
Mn x 10^3	PDI
4.0	1.5

Synthesis Procedure:
By ring opening polymerization using tin octoate as catalyst amd methoxy ethanol as initiator.

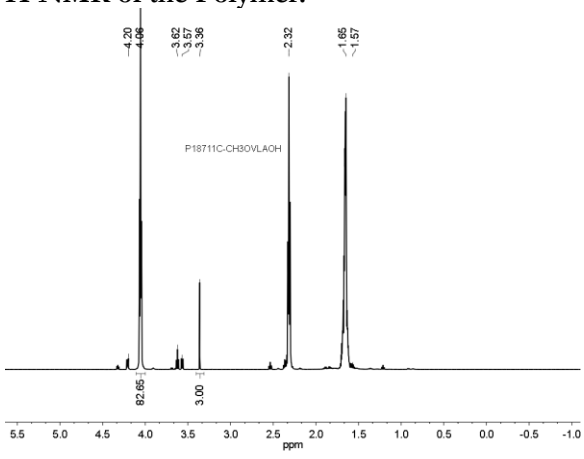
Characterization:
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

Solubility:
Polymer is soluble in toluene, THF, $CHCl_3$ and CH_2Cl_2. The polymer is insoluble in methanol, hexane and ether.

Chemical Shifts in $CDCl_3$:

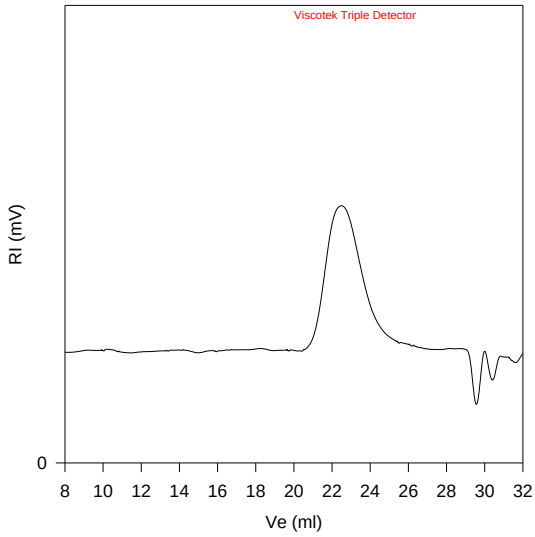


H NMR of the Polymer:



SEC of Sample:

P18711C-VLA



Size Exclusion Chromatography of Polymer;
—— M_n = 4,000, M_w =6,100, M_w/M_n = 1.5