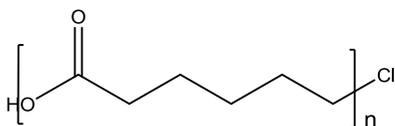


Sample Name: α -Carboxy- ω -Chloro-terminated Poly(ϵ -caprolactone)

Sample #: P20030A-CL-COOHCl

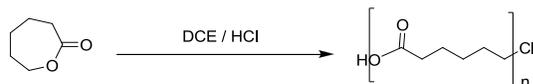


Composition:

$M_n \times 10^3$ HOOC-PCL-Cl	PDI
2.3 (NMR)	1.3 (SEC)

Synthetic Procedure:

HOOC-PCL-Cl is prepared by ring-opening polymerization of ϵ -caprolactone according to the scheme illustrated below:



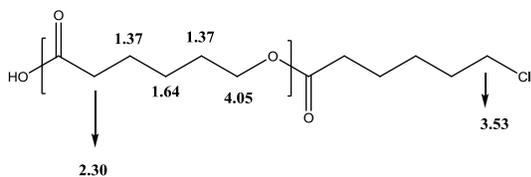
Solubility:

Poly(ϵ -caprolactone) is soluble in CHCl_3 , Acetone, THF, insoluble in methanol, ethanol, ether. Precipitated from Acetone or DCM into hexane or ether.

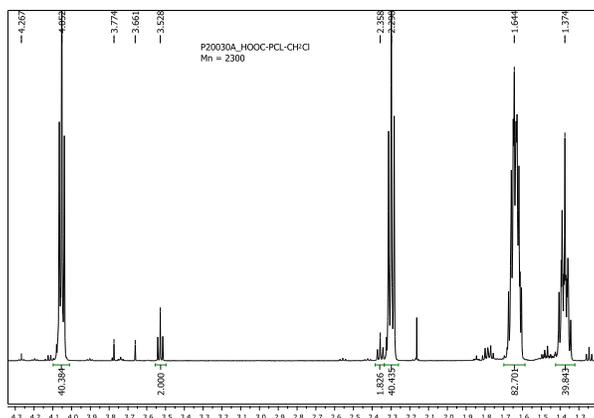
Characterization:

PCL, bearing carboxylic and chloroalkyl terminal units, was analyzed by size exclusion chromatography (SEC) to obtain the polydispersity index (PDI) and M_n . M_n was also determined by NMR.

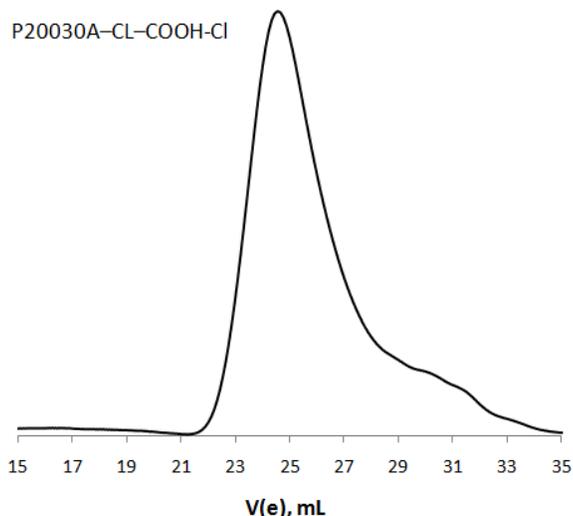
Chemical shifts assignments



^1H NMR of HOOC-PCL-Cl



SEC of the polymer:



N.B.: Certain broadening of the elugram might be due to the strong interaction of COOH-group with the column packing material