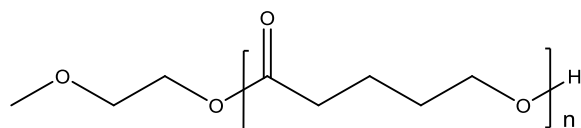


Sample Name: Poly(δ -valerolactone)

Sample #: P20085-VLOCH3

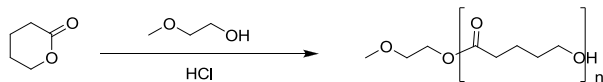


Composition:

$M_n \times 10^3$ PVLA	PDI
2.2 (NMR)	1.4 (SEC)

Synthetic Procedure:

PVLA is prepared by ring-opening polymerization of δ -valerolactone using methoxyethanol as an initiator. The scheme of the reaction is illustrated below:



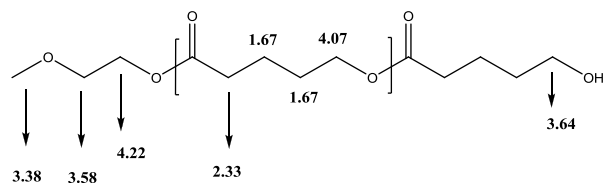
Solubility:

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

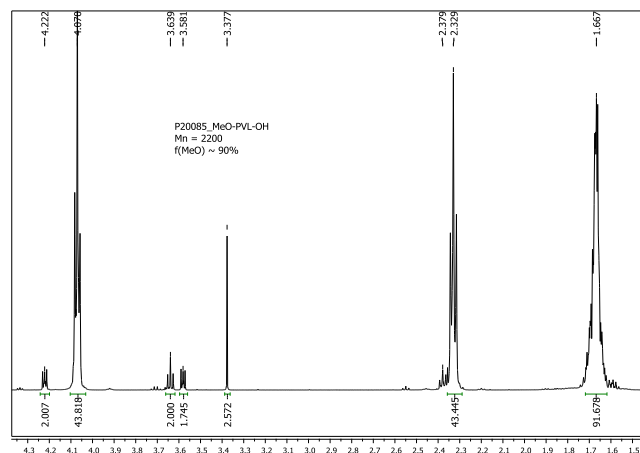
Characterization:

PVL was analyzed by size exclusion chromatography (SEC) to obtain the polydispersity index (PDI). M_n was determined by NMR from the integrals ratio of the peaks at 3.64 and 4.07 ppm.

Chemical shifts assignments



NMR of PVLA



SEC of the polymer:

