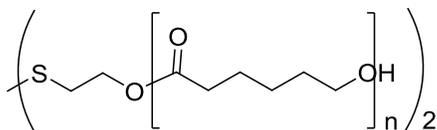


Sample Name: Poly(ϵ -caprolactone), bearing dithiodiethanol core

Sample #: P20022_CLdisulf

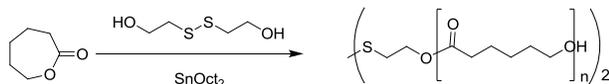
Structure:



Composition:

$M_n \times 10^3$ HO-PCL-SS-PCL-OH	PDI
7.0 (SEC-LS)	1.1
SS functionality $\geq 95\%$	

Synthetic Procedure: (-S-PCL)₂ is prepared by ring-opening polymerization of ϵ -caprolactone using disulfide-based initiator. The scheme of the reaction is illustrated below:



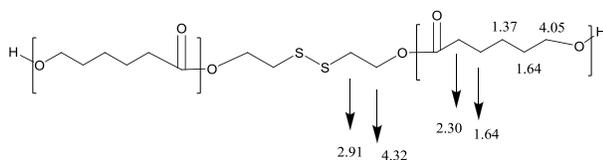
Characterization:

PCL bearing the disulfide linkage was analyzed by size exclusion chromatography with light-scattering detector (SEC-LS) to obtain the M_n and polydispersity (PDI).

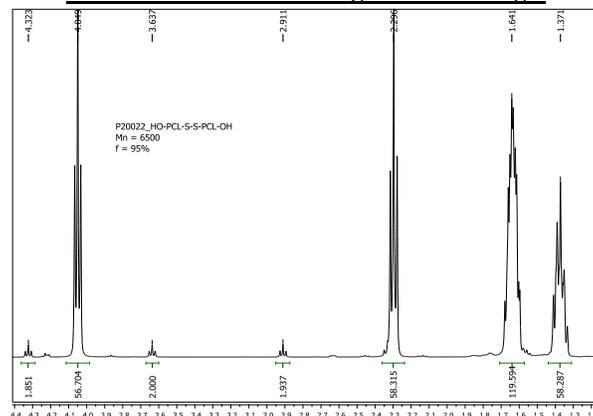
Solubility:

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

Chemical shifts assignments



¹H-NMR of the PCL bearing disulfide linkage:



SEC of PCL-SS-PCL:

