Product Profile

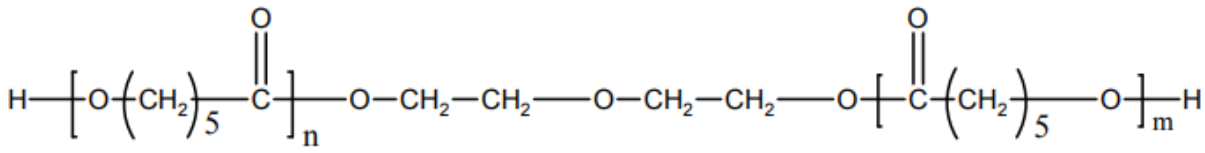
Identification

Product Name: Dihydroxyl ended Poly(ε-Caprolactone)

Product Lot Number: P45724B-CL2OH

CAS #: 24980-41-4

Chemical Architecture:



Composition:

Mn (g/mole)	**5,000**
Mw (g/mole)	**7,000**
Mw/Mn	**1.35**
dn/dc (mL/g) in THF at 30 ºC	**0.030**

Method of Synthesis

The polymer is synthesized by ring opening polymerization polymerization process.

Solubility in different solvents:

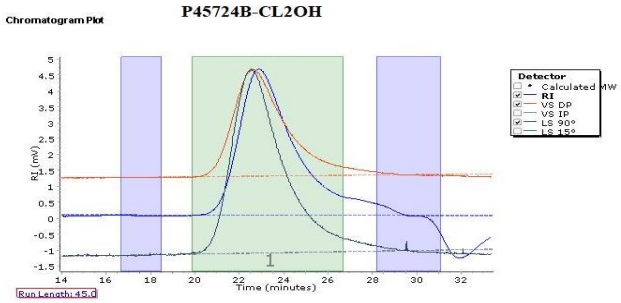
THF	√	DMF	√
Alcohol	**X**	$CHCl_3$	√
Toluene	√	Water	**X**

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Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC Profile:

Molecular weights were determined by Agilent Technologie 1260 Infinity II GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LS 15°) and three columns (PLgel, 7.5x300 mm, 5µm-10µm, 10^5-10^6Å). THF (stabilized BHT) with 1%(v/v%) TEA was the eluent. The flow rate was 1.0 ml/min.



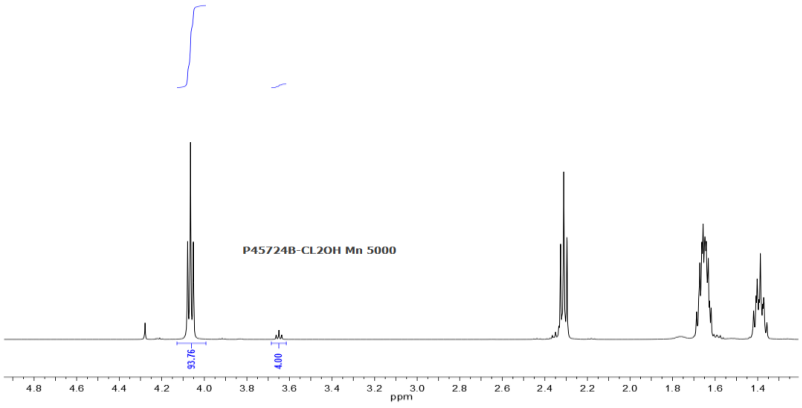
Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	8527	5597	7611	9539	11266	9258	1.36

Processing Parameters

B. NMR (H^1NMR) of CL

CL sample was dissolved in $CDCl_3$. ^1H NMR spectra was determined using a 500 MHz. Bruker Avance III spectrometer.



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