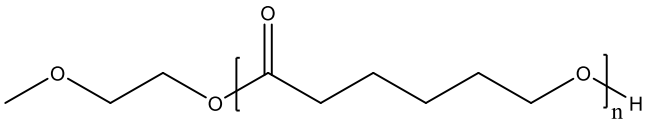
Product Profile

Identification

Product Name: Poly(ε-Caprolactone)
Product Lot Number: P45714C-CL
CAS #: 24980-41-4
Chemical Architecture:



Composition:

Mn (g/mole)	**33,000**
Mw (g/mole)	**46,000**
Mw/Mn	**1.35**
dn/dc (mL/g) in $CHCL_3$ at 25 ºC	**0.060**

Method of Synthesis

The polymer is synthesized by ring opening polymerization polymerization process.

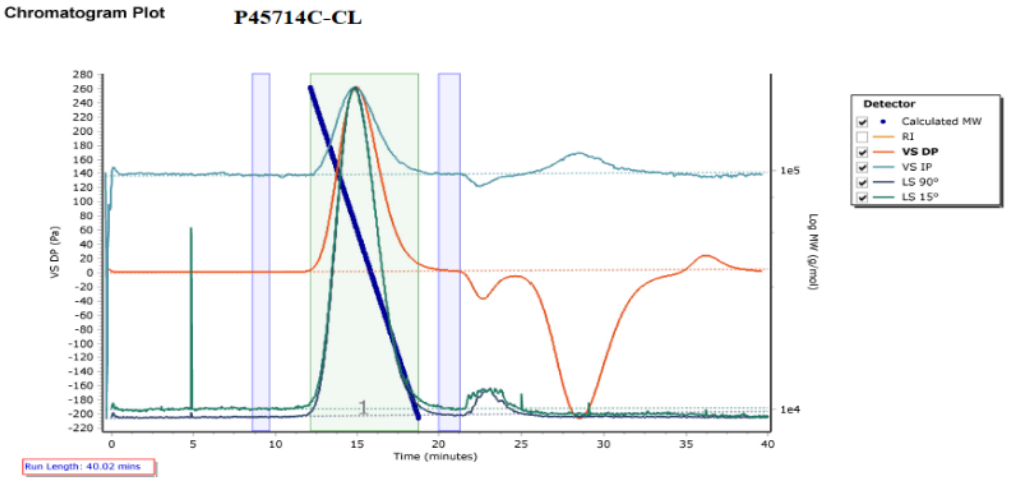
Solubility in different solvents:

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

Validation of Architecture

A. <u>Gel Permeation Chromatography (GPC), SEC Profile:</u>

Molecular weights were determined by Agilent Technologie 1260 Infinity II GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90º and LS 15º) and three columns (PLgel, 7.5x300 mm, 5µm-10µm, 10^5-10^6Å). $CHCL_3$ 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	42964	33348	45916	60329	74744	59051	1.377

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