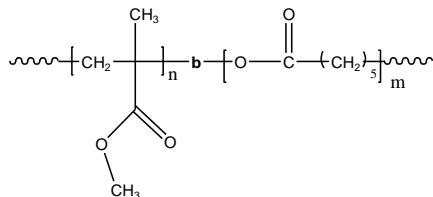


Sample Name: Poly (Methylmethacrylate-*b*- ϵ -caprolactone)

Sample #: P10467C-MMACL

Structure:



Composition:

Mn $\times 10^3$ MMA- <i>b</i> -CL	Mw/Mn (PDI)
16.5- <i>b</i> -9.0	1.43

Synthesis Procedure:

Polymer is prepared by anionic polymerization from OH terminated PMMA.

Characterization:

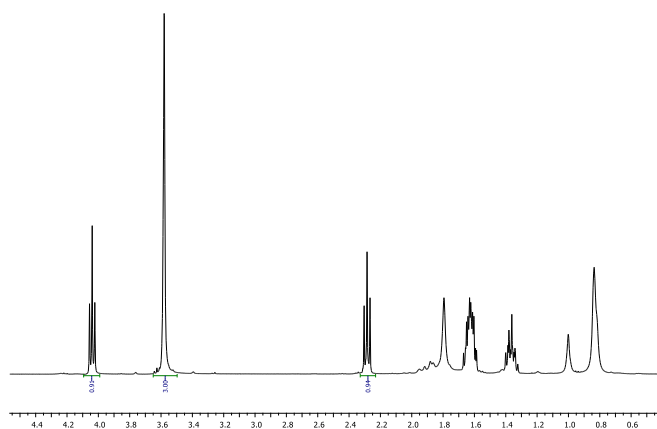
Block copolymer composition was calculated from ^1H -NMR spectroscopy by comparing the peak area of the Methyl ester protons at 3.6 ppm with the peak area of ϵ -caprolactone protons at 4.1 ppm. Block copolymer PDI is determined by SEC.

Solubility:

Polymer is soluble in THF, Chloroform, DMF, and precipitated in methanol and hexanes.

^1H NMR spectrum of the Polymer:

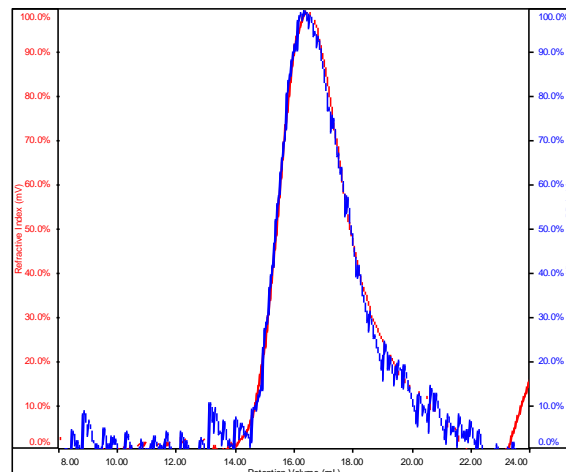
PROTON_01
P10467-C in CDCl₃ (2019-08-30)



SEC profile of the block copolymer:

P10467C

Conc	4.0503
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99K_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
p10467C_01(94).vdt	25,391	36,355	36,694	1.432	0.5789