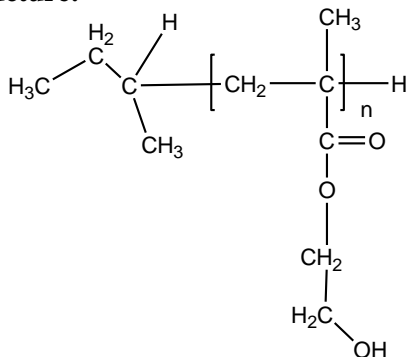


Sample Name:
Poly (2-hydroxyethyl methacrylate)

Sample #: **P40923-HEMA**
(Synthesized by anionic process)

Structure:



Composition:

$\text{Mn} \times 10^3$	PDI
15.5	1.16
T_g ($^{\circ}\text{C}$)	76 $^{\circ}\text{C}$
Microstructure: S: h: I	76:23:1

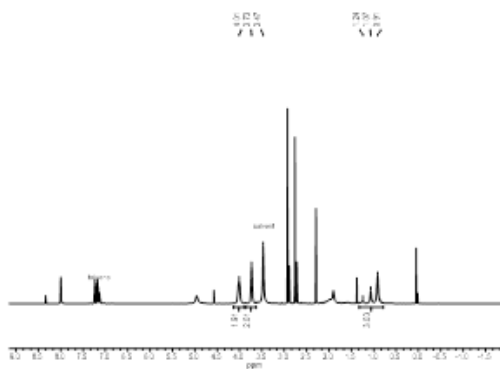
Synthesis Procedure:

Poly (2-hydroxyethyl methacrylate) is synthesized by living anionic polymerization of 2-(trimethylsilyl) ethyl methacrylate followed by deprotection of hydroxyl group under acidic conditions.

Characterization:

The product was characterized by size exclusion chromatography (SEC), ^1H NMR and DSC.

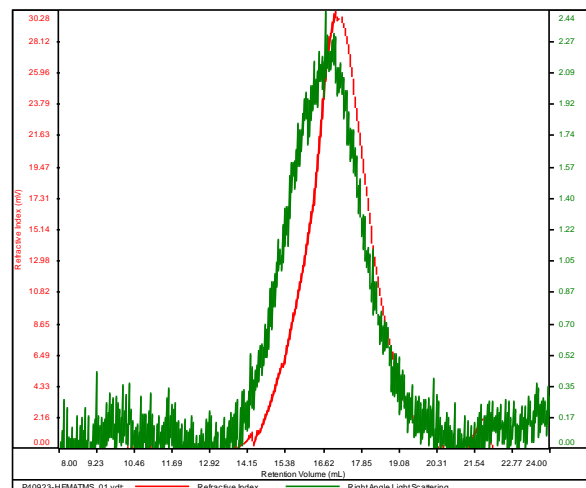
^1H NMR spectrum of the Sample:



SEC elugram of homopolymer:

P40923-HEMA-TMS

Conc	4.5915
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k-nov302017-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40923-HEMATMS_01.vdt	24,681	28,619	23,485	1.160	0.1175

DSC thermogram for the polymer:

Size: 10.4000 mg

DSC

