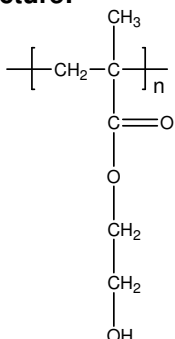


Sample Name:
Poly(2-hydroxyethyl methacrylate)

Sample #: P18665-HEMA
(synthesized by anionic polymerization of HEMA-TMS monomer)

Structure:



Composition:

Mn x 10 ³	PDI
3.5	1.19
4.2 (HNMR)	
Microstructure % S;H:I	64:23:13

Synthesis Procedure:

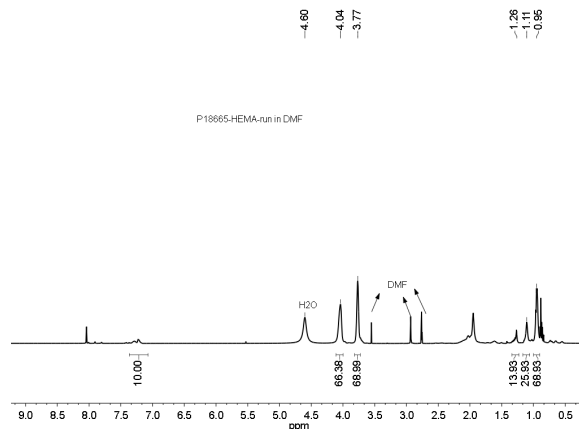
Poly(2-hydroxyethyl methacrylate) is synthesized by living polymerization (anionic or by GTP process) of 2-(trimethylsilyl) ethyl methacrylate followed by deprotection of hydroxyl group under acidic conditions.

Characterization:

The molecular weight and polydispersity index (PDI) of Poly(2-hydroxyethyl methacrylate) are obtained by size exclusion chromatography in DMF at 60°C using TDA Viscotek triple detector.

Solubility: Poly(2-hydroxyethyl methacrylate) is soluble in ethanol, DMF etc. It is insoluble in hexane, toluene, THF, and water.

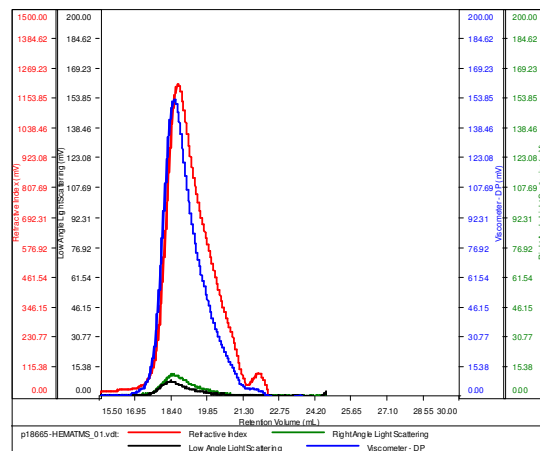
HNMR of the Polymer in DMF



SEC of Homopolymer:

SAMPLE ID: P18665-HEMATMS

Conc (mg/mL)	50.3381
dn/dc (mL/g)	0.0650
Method	ps80k042014-0000.vcm
Solvent	DMF w 0.03M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
p18665-HEMATMS_01.vdt	5,325	6,334	7,360	1.189	0.0540