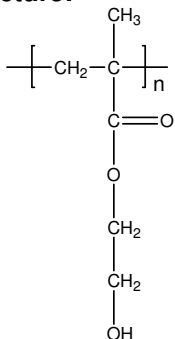


Sample Name:
Poly(2-hydroxyethyl methacrylate)

Sample #: P18666-HEMA
(synthesized by anionic polymerization of
HEMA-TMS monomer)

Structure:



Composition:

Mn x 10 ³	PDI
3.5	1.06
3.8 (HNMR)	
Microstructure % S;H:I	64:23:13

Synthesis Procedure:

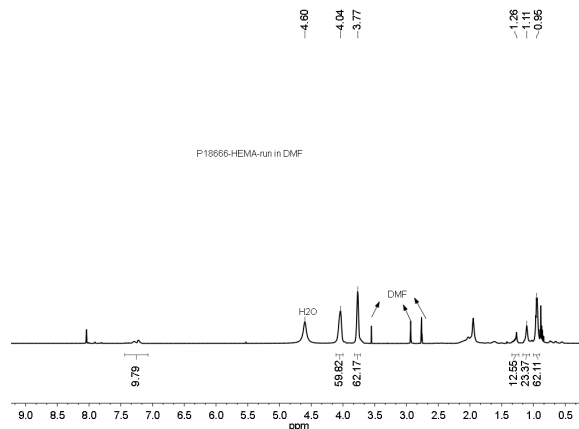
Poly(2-hydroxyethyl methacrylate) is synthesized by living polymerization (anionic or by GTP process) of 2-(trimethylsilyl) ethyl methacrylate followed by deprotection of hydroxyl group under acidic conditions.

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.

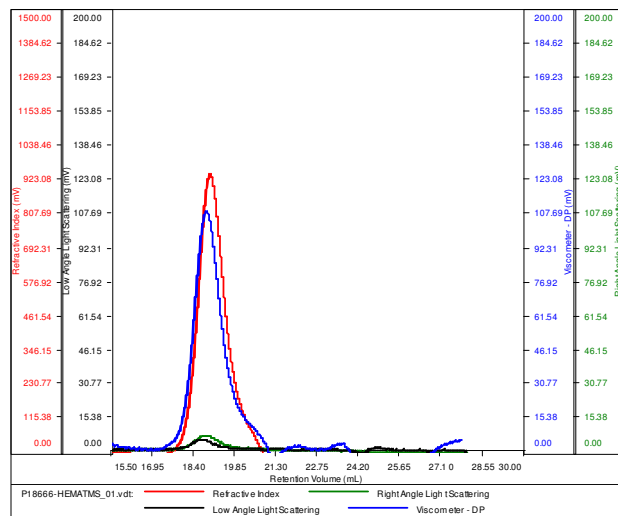
HNMR of the Polymer in DMF



SEC of Homopolymer:

SAMPLE ID: P18666-HEMATMS

Conc (mg/mL)	23.5840
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
P18666-HEMATMS_01.vdt	5,520	5,858	5,632	1.061	0.0592