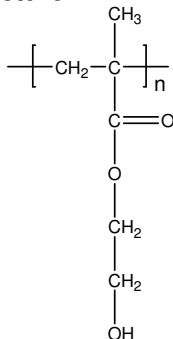


Sample Name:
Poly(2-hydroxyethyl methacrylate)

Sample #: P18899DD-HEMA
(synthesized by GTP process HEMA-TMS monomer)

Structure:



Composition:

Mn x 10 ³	PDI
10.0	1.4
Microstructure % S;H:I	53:41;6

Synthesis Procedure:

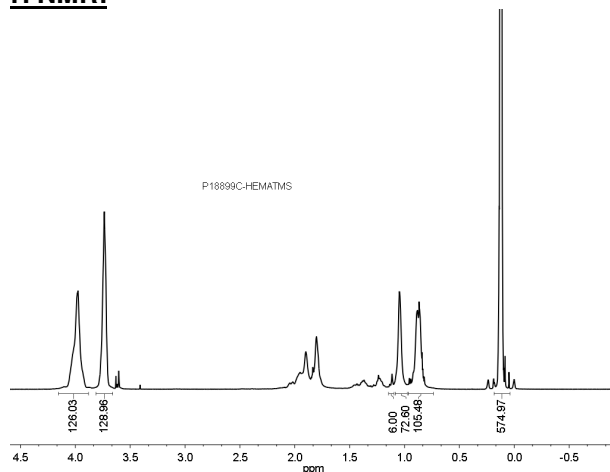
Poly(2-hydroxyethyl methacrylate) is synthesized by living polymerization (anionic or by GTP process) of 2-(trimethylsilyl) ethyl methacrylate followed by deprotection of hydroxyl group under acidic conditions.

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.

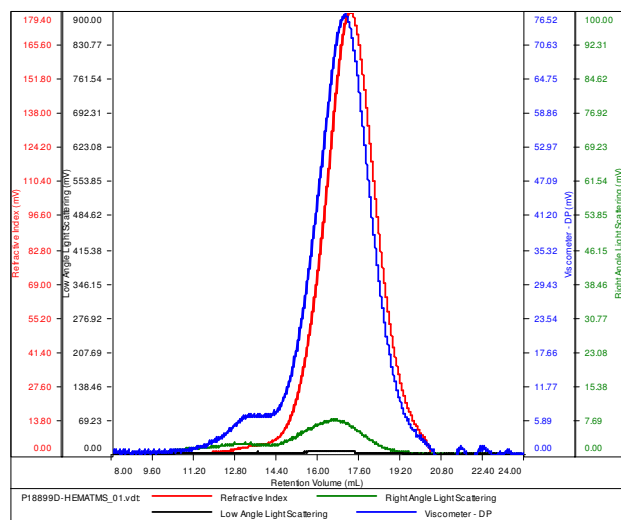
H NMR:



SEC of Homopolymer:

SAMPLE ID: P18899D-HEMATMS

Conc (mg/mL)	19.5909
dn/dc (mL/g)	0.0650
Method	PS80K-17SEP2014-0000.vcm
Solvent	DMF w 0.03M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18899D-HEMATMS_01.vdt	15,915	22,178	16,277	1.394	0.1079

Mn : 10,000 Mw/Mn 1.4