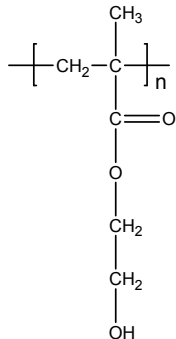


Sample Name:
Poly (2-hydroxyethyl methacrylate)

Sample #: **P18659-HEMA**
(Synthesized by Anionic Process)

Structure:



Composition:

Mn x 10³	PDI
21.5	1.09
Microstructures: S: H: I	75:24:1

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.

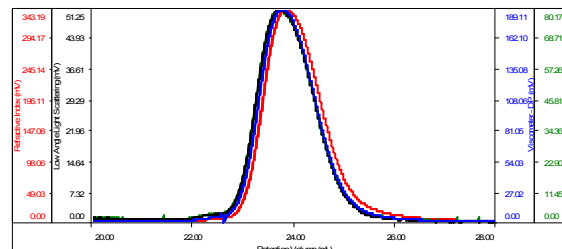
Solubility:

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

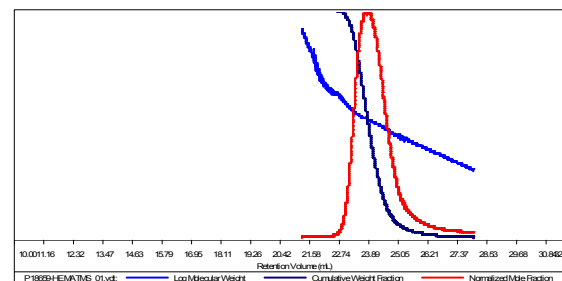
SEC of Homopolymer: OH protected HEMA

Sample ID: P18659-HEMATMS

Concentration (mg/mL)	59.0768
Sample dn/dc (mL/g)	0.0940
Method File	PS80K-Apr15-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18659-HEMATMS_01.vcl	33,971	37,270	36,177	1.097	0.0621



¹H-NMR Spectrum of the polymer:

