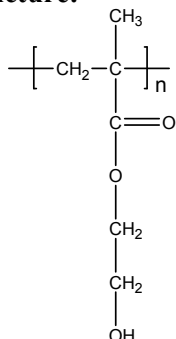


Sample Name:
Poly (2-hydroxyethyl methacrylate)

Sample #: **P16118-HEMA**

Structure:



Composition:

$\text{Mn} \times 10^3$	PDI
26.0	1.5
Microstructures: S: h: I	67:30:3

Synthesis Procedure:

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

Characterization:

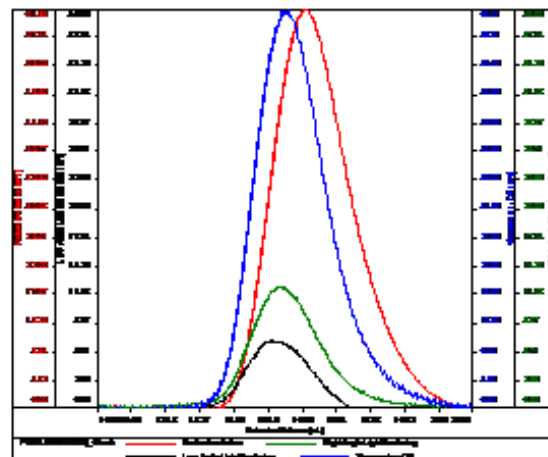
The molecular weight and polydispersity index (PDI) of poly (2-hydroxyethyl methacrylate) are calculated from Mw of poly (2-(trimethylsilyl) ethyl methacrylate (PHEMATMS), which is obtained by size exclusion chromatography.

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

SEC of the HEMA:

P16118-HEMA

Conc. (mg/mL)	2.0000
Flow (mL/min)	0.5000
Method	P16118-HEMA SEC 00-0000000000000000
Sample name	SEC to SEC 0000000000000000
Columns	P16118



Sample	Mn	Mw	PDI	Mn	PDI
P16118-HEMA SEC 00-0000000000000000	26.000	39.000	1.500	26.000	1.500

¹H-NMR Spectrum of the polymer:

