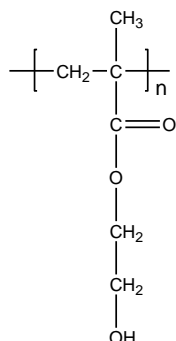


Sample Name:

Poly(2-hydroxyethyl methacrylate)

Sample #: **P19522-HEMA**

Structure:



Composition:

$M_n \times 10^3$	PDI
13.0	2.2

Synthesis Procedure:

Poly(2-hydroxyethyl methacrylate) is synthesized by living anionic 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 obtained by size exclusion chromatography.

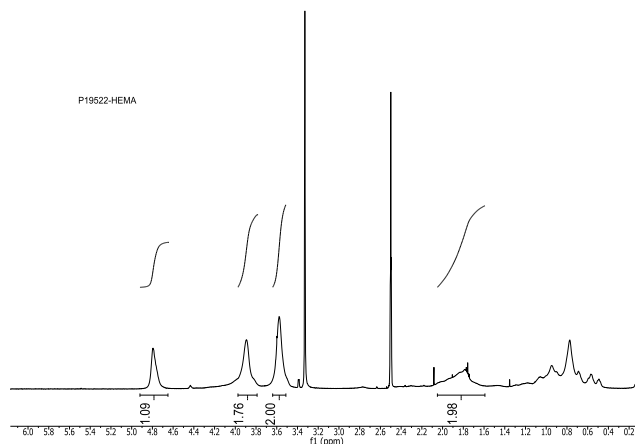
Thermal analysis

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:

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

^1H NMR spectrum of homopolymer:



SEC elugram of homopolymer:

