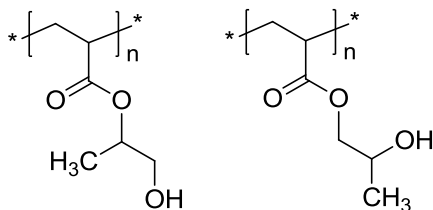


Sample Name: Poly(2-hydroxypropyl acrylate)
(mixture of isomers)

Sample #: P40749-HPA

Structure:



Composition:

$M_n \times 10^3$	PDI
2.2	1.10

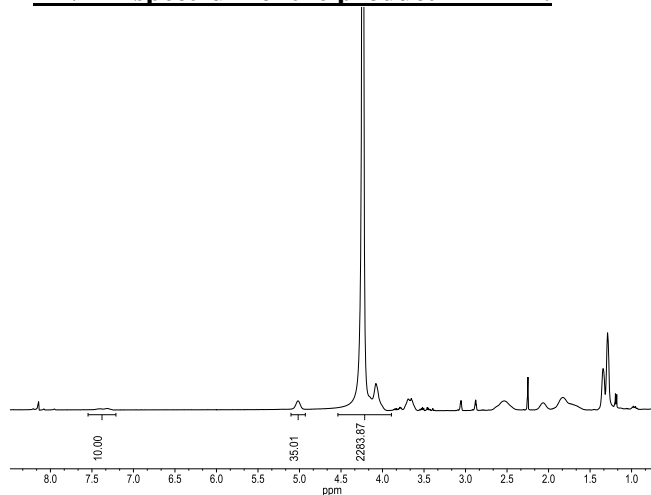
Synthesis Procedure:

The product was prepared by anionic process using 2-Trimethyl siloxy Propyl acrylate. Initiator was based on Sec. BuLi and a unit of diphenylethylene

Characterization:

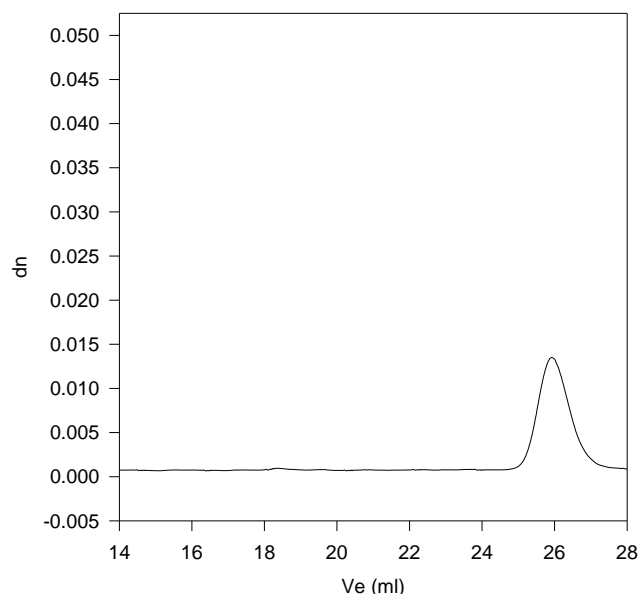
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

HNMR spectrum of the product in DMF:



SEC of Homopolymer:

P40749-2HPA-TMS



Size Exclusion Chromatography of product

$M_n=3,500$, $M_w=4,000$ $M_w/M_n=1.10$

After TMS group deprotected:

M_n 2,200 M_w/M_n 1.10