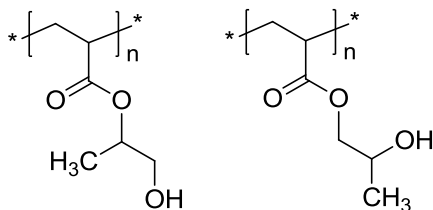


Sample Name: Poly(2-hydroxypropyl acrylate)
(mixture of isomers)

Sample #: P40753-HPA

Structure:



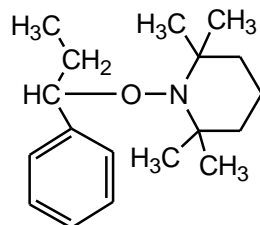
(mixture of isomers)

Composition:

$M_n \times 10^3$	PDI
15.0	1.5

Synthesis Procedure:

The polymer was synthesized by Controlled radical process using following catalyst:



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.

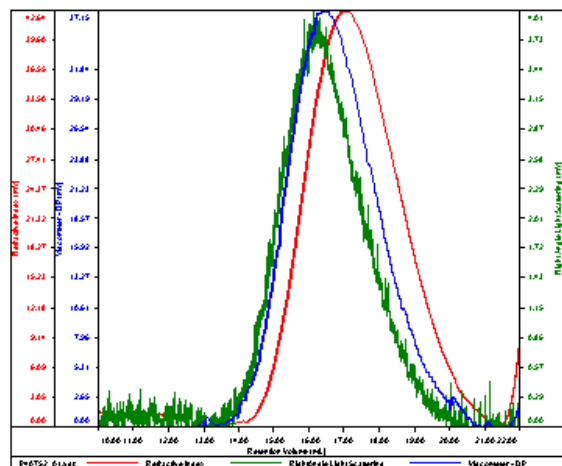
Solubility:

Poly(hydroxypropyl acrylate) is soluble in DMF, THF. Low molecular weight ($M_n < 4K$) polymer is also soluble in cold water. The polymer precipitates from hexane and ether.

SEC of Homopolymer:

P40753-2HPA

Conc	15.6133
dn/dc	0.0660
Solvent	DMF w/ 0.023M LiBr
Flow Rate	0.7000
Method	PS-SEC_2017-September-22-0000.uem



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40753_21.uem	15,143	23,676	20,534	1.564	0.0838