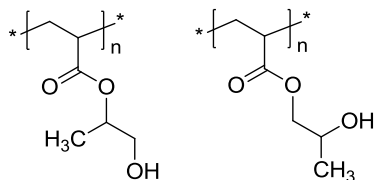


**Sample Name:** Poly (2-hydroxypropyl acrylate)  
(mixture of isomers)

**Sample #:** P40747-HPA

**Structure:**



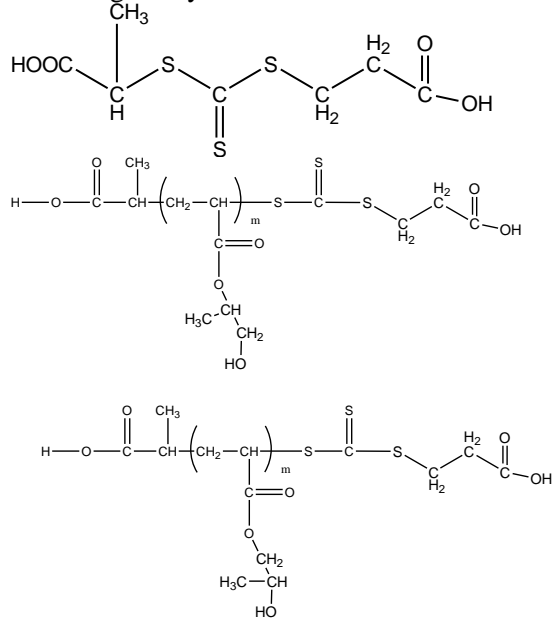
(mixture of isomers)

**Composition:**

$M_n \times 10^3$	PDI
6.5	1.13

**Synthesis Procedure:**

The polymer was synthesized by RAFT 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:**

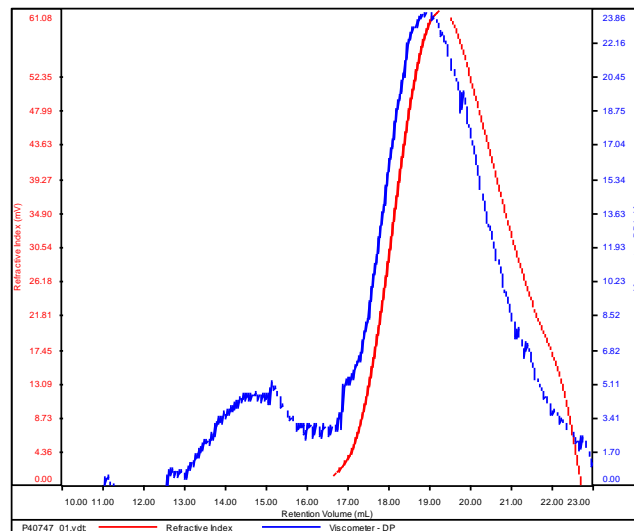
Poly(hydroxypropyl acrylate) is soluble in DMF, THF. Low molecular weight ( $M_n < 4K$ ) polymer is also soluble in cold water.

The polymer precipitates from hexane and ether.

**SEC elugram of Homopolymer:**

P40747-HPA

Conc	22.1969
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS-80K_2017-September-22-0000.vcm



Sample	$M_n$	$M_w$	$M_p$	$M_w/M_n$	IV
P40747_01.vdt	6,546	7,425	7,093	1.134	0.0384