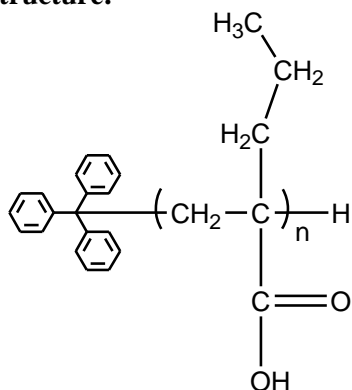


Sample Name: Poly (α -propyl acrylic acid)

Sample #: P40739A-PrAA

Structure:



Composition:

$M_n \times 10^3$	PDI
2.5	1.18

Synthesis Procedure:

Poly (α -propyl acrylic acid) is synthesized from Poly tert.butyl propyl acrylate after hydrolysis of its ester.

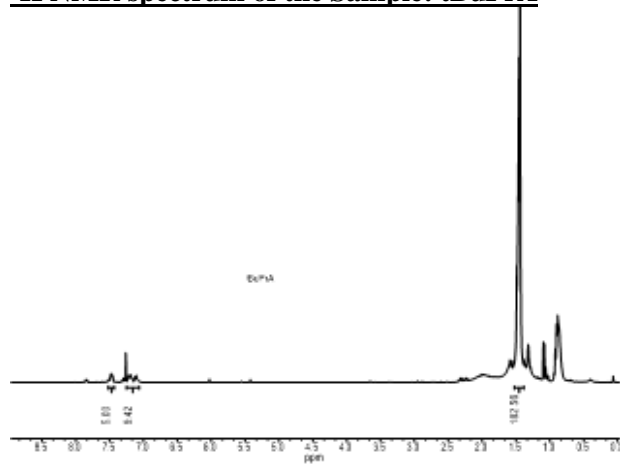
Characterization:

The molecular weight and polydispersity index (PDI) of Poly (α -propyl acrylic acid) are obtained by size exclusion chromatography in DMF.

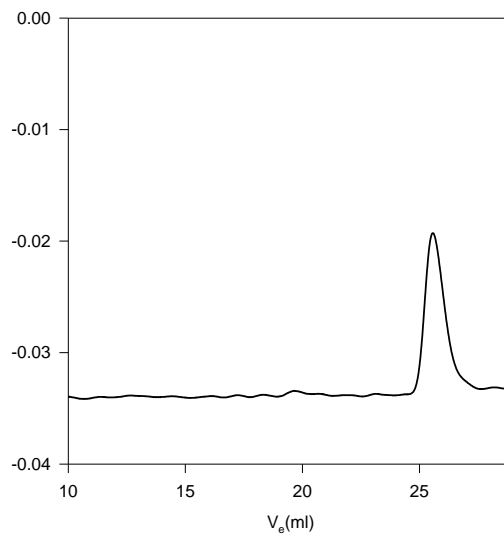
Solubility:

Polymer is soluble in methanol, DMF and can be solubilized in water in the form of sodium salt.

^1H NMR spectrum of the Sample: tBuPrA



SEC elugram of Homopolymer tBuPrA#40739:



Size exclusion chromatography of Poly(alpha-propyl tert.butyl acrylate)

$M_n = 3,500$; $M_w = 4,000$; $PI = 1.18$