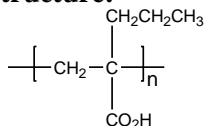


Sample Name:
Poly(α -propyl acrylic acid)

Sample #: **P5983-PrAA** (synthesized by direct polymerization of PrAA monomer using conventional free radical process)

Structure:

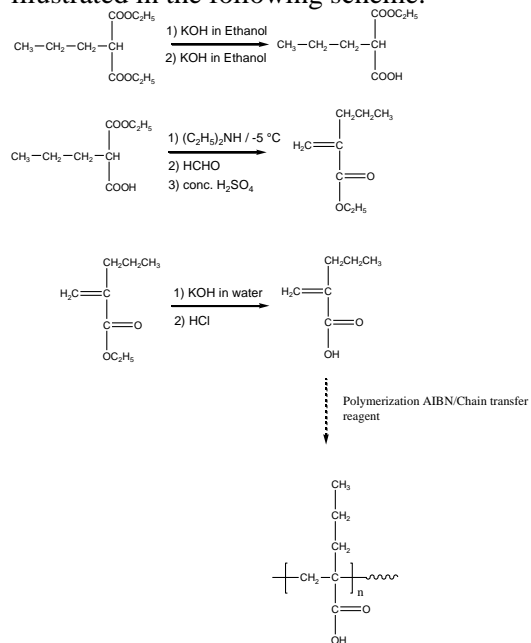


Composition:

Mn x 10 ³	PDI
26.0	1.6

Synthesis Procedure:

Poly(α -propyl acrylic acid) is synthesized as illustrated in the following scheme:



Characterization:

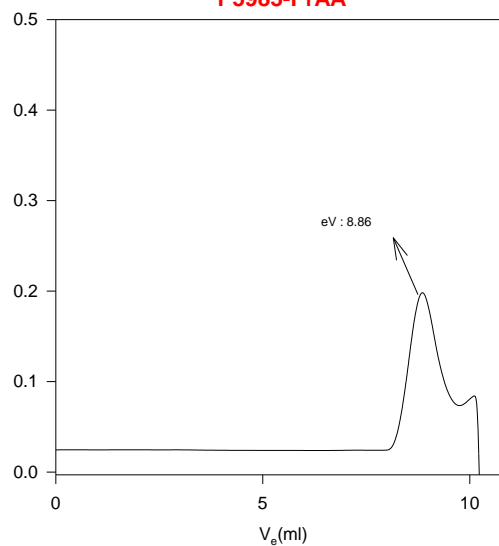
The molecular weight and polydispersity index (PDI) of Poly(α -propyl acrylic acid) are obtained by size exclusion chromatography in DMF with respect to poly acrylic acid standards.

Solubility:

Polymer is soluble in ethanol, methanol
 THF, Dioxane.

SEC of Homopolymer:

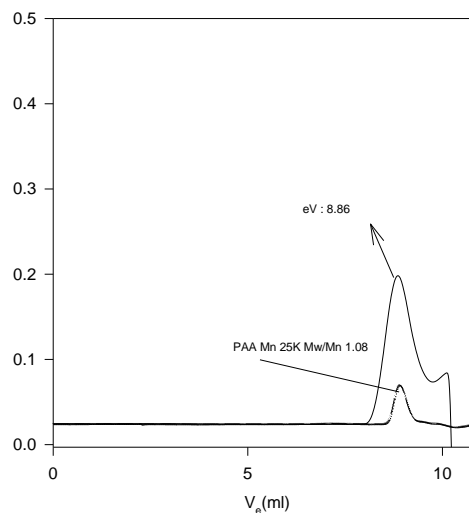
P5983-PrAA



Size exclusion chromatography of Poly(α -propylacrylic acid) in DMF with respect to Poly acrylic acid Standards:

Mn = 26000 Mw: 41500 Mw/Mn: 1.6

P5983-PrAA Vs. PAA Mn of 25K as reference material



Size exclusion chromatography of Poly(α -propylacrylic acid) in DMF with respect to Poly acrylic acid Standards:

Mn = 26000 Mw: 41500 Mw/Mn: 1.6