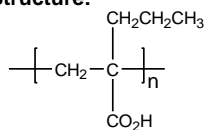


Sample Name:
Poly(α -propyl acrylic acid)

Sample #: **P18180-PrAA** (lot synthesized by direct polymerization of PrAA monomer using conventional free radical process)

Structure:

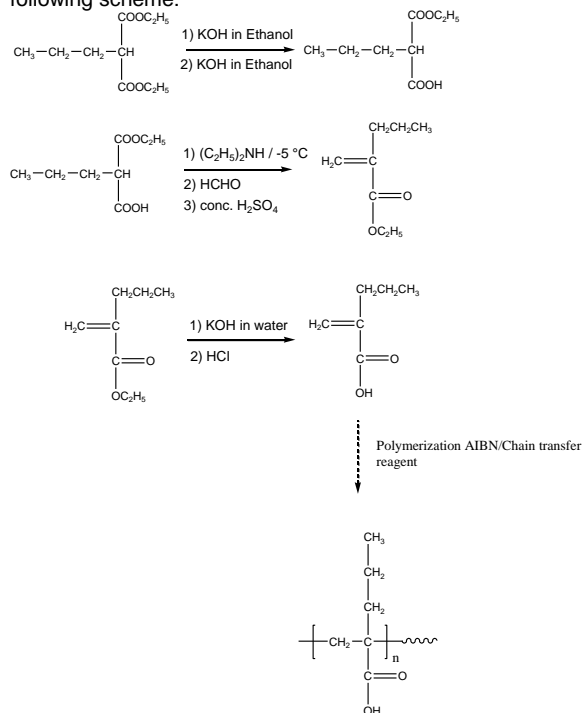


Composition:

Mn x 10 ³	PDI
350.0	1.8

Synthesis Procedure:

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



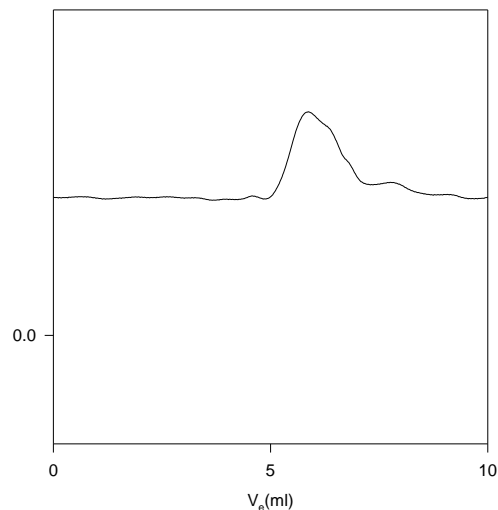
Characterization:

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

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

SEC of Homopolymer:

P18180-PrAA



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

Mn = 350,000 Mw: 630,000 Mw/Mn: 1.8

