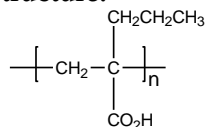


Sample Name: Poly( $\alpha$ -propyl acrylic acid)

Sample #: P18861B-PrAA (lot synthesized by direct polymerization of PrAA monomer using radical process)

**Structure:**

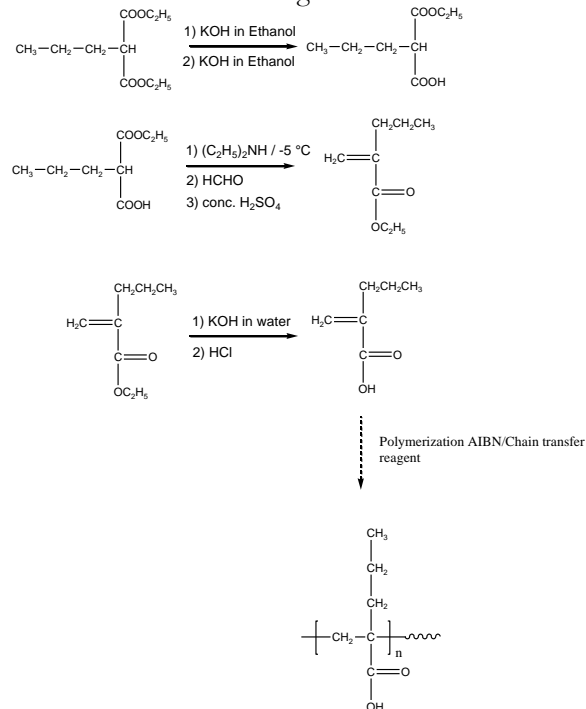


**Composition:**

Mn x 10 <sup>3</sup>	PDI
22.0	2.5

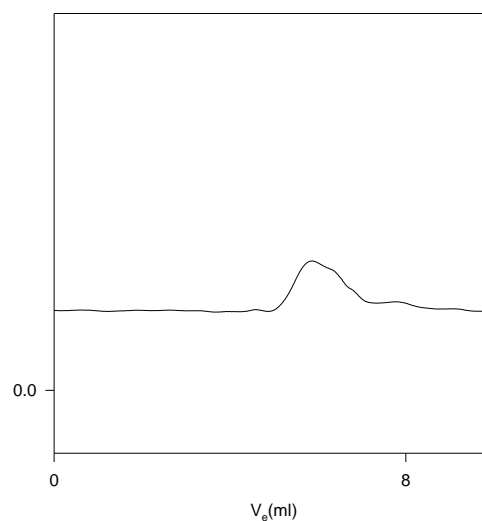
**Synthesis Procedure:**

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



**SEC of Homopolymer:**

P18861B-PrAA



**Characterization:**

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

**Solubility:**

Polymer is soluble in THF, Dioxane and alkaline ethanol, methanol