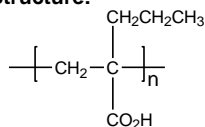


**Sample Name:**  
**Poly( $\alpha$ -propyl acrylic acid)**

**Sample #: P14076-PrAA** (lot synthesized by direct polymerization of PrAA monomer using conventional free radical process)

**Structure:**

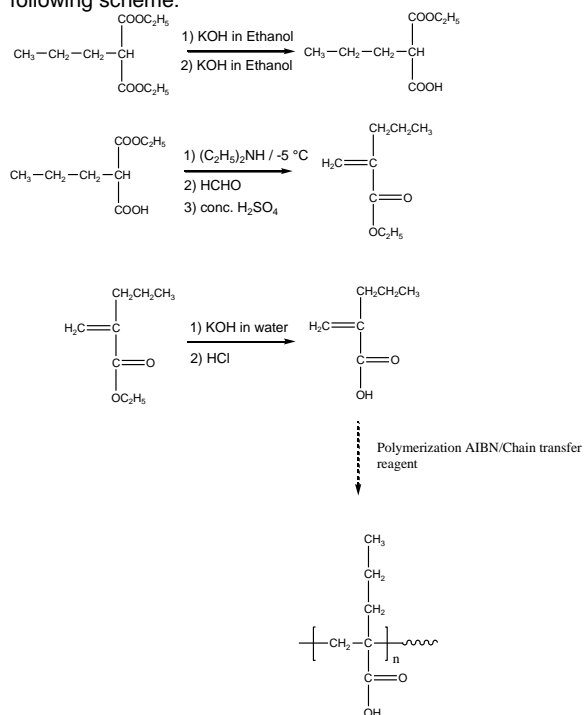


**Composition:**

$M_n \times 10^3$	PDI
175.0	3.0

**Synthesis Procedure:**

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



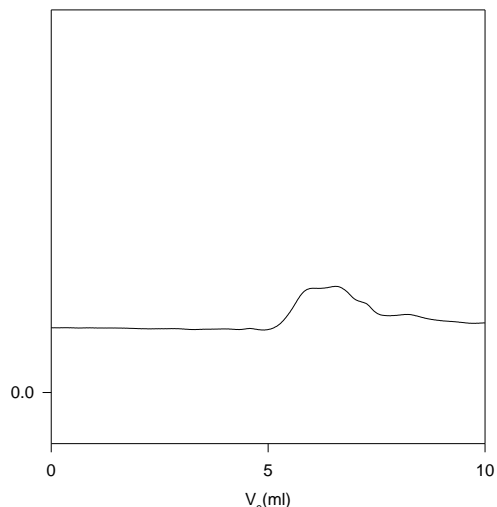
**Characterization:**

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 ethanol, methanol THF, Dioxane.

**SEC of Homopolymer:**

**P14076-PrAA**



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

$M_n = 175,000$   $M_w = 525,000$   $M_w/M_n: 3.0$