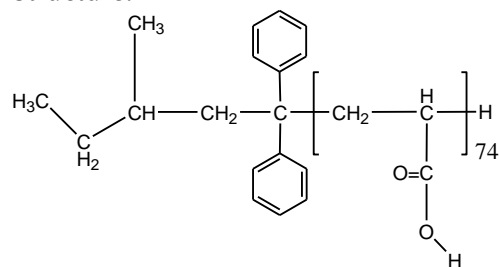


Sample Name: Poly(Acrylic acid) Reference

**Polymer**

Sample #: P11379-AA

**Structure:**

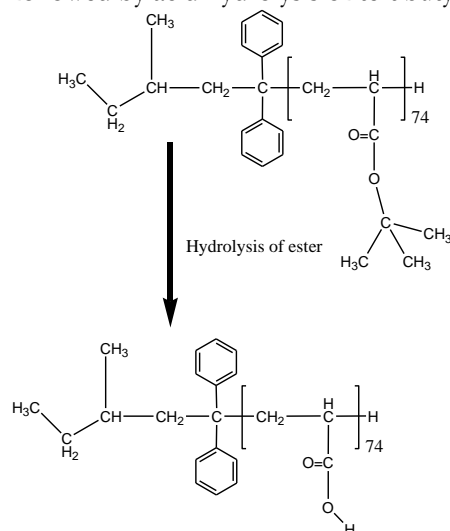


**Composition:**

Mn x 10 <sup>3</sup>	Mw/Mn (PDI)
5.0	1.16

**Synthesis Procedure:**

By anionic living polymerization of tert.butylacrylate followed by acid hydrolysis of tert.butyl ester to acid.



**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF for poly tert butyl acrylate. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors model 270 from Viscotek Co.

**Ref:**

R. Fayt, R. Forte, C. Jacobs, R. Jerome, T. Ouhadi, Ph. Teyssie and S. K. Varshney, *Macromolecules*, 1987, 20, 1442-1444.

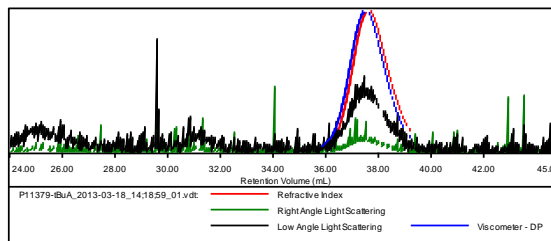
**Solubility:**

Polymer is soluble in methanol, ethanol.

**SEC of Sample of the polymer:**

**Sample ID: P11379-tBuA**

Concentration (mg/mL)	30.1035
Sample dn/dc (mL/g)	0.0512
Method File	PS80K-Mar-2013-0002.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P11379-tBuA_2013-03-18_14:18:59_0	9,524	11,079	10,267	1.163	0.0986

