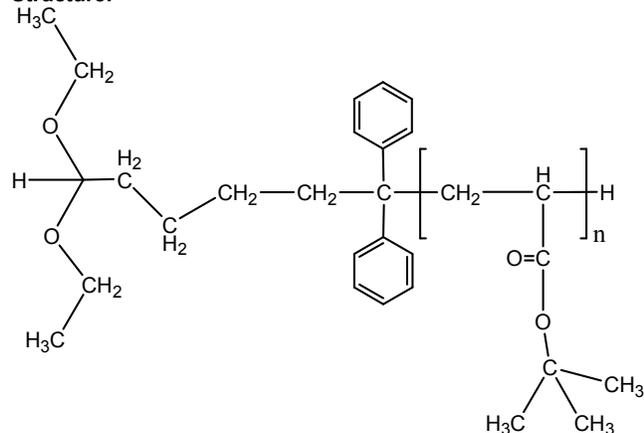


**Sample Name:**  
**Diethyl acetal propionaldehyde Terminated**  
**Poly(t-butyl acrylate)**

**Sample #:** P10118-tBuA-acetal

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
4.0	1.18

**Synthesis Procedure:**

Diethyl acetal propionaldehyde Terminated Poly(t-butyl acrylate) is synthesized by living anionic polymerization of tert.butyl acrylate.

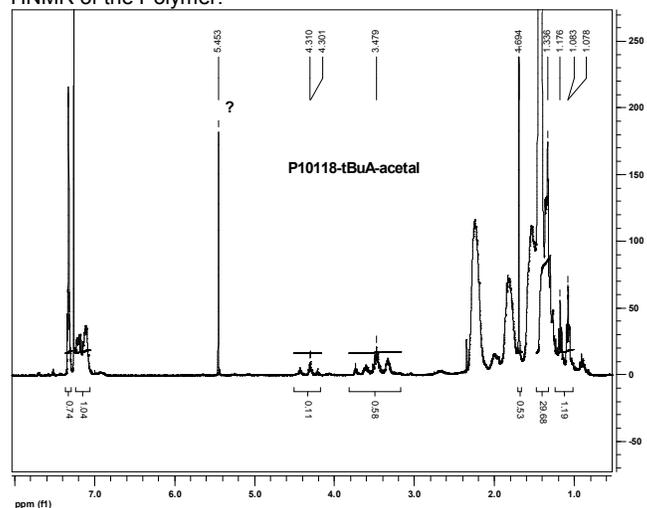
**Characterization:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) before inclusion of the CO<sub>2</sub>H function using a Varian liquid chromatograph equipped with a UV and refractive index detector. The functionality of polymer was determined by the titration with NaOH, using phenolphthalein as the indicator.

**Solubility:**

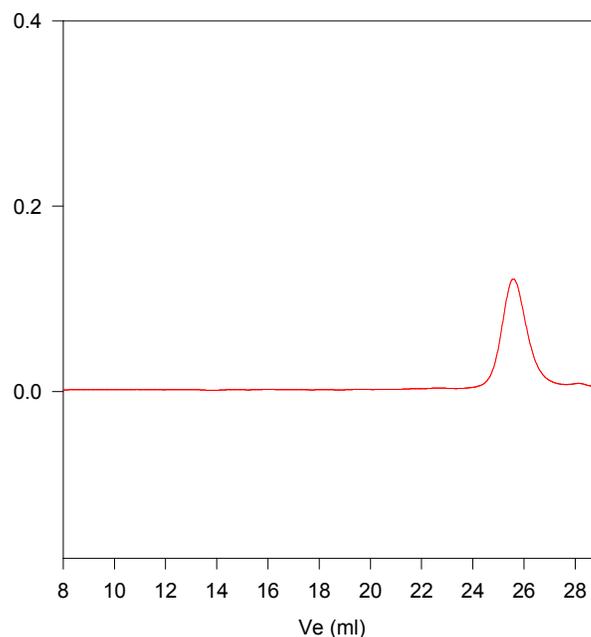
The functionalized polymer is soluble in THF, toluene and chloroform. It precipitates into Methanol/water mixture.

**HNMR of the Polymer:**



**SEC of Sample:**

**P10118-tBuA-acetal**



Size Exclusion Chromatography of Poly tert.Butyl acrylate

Mn : 4,000 Mw:4,700 Mw/Mn 1.18