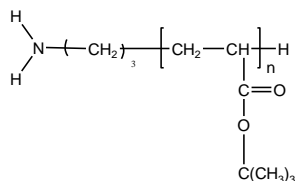


**Sample Name:**  
**Amino Terminated Poly tert.butyl acrylate**

**Sample #:** P9840-tBuANH2

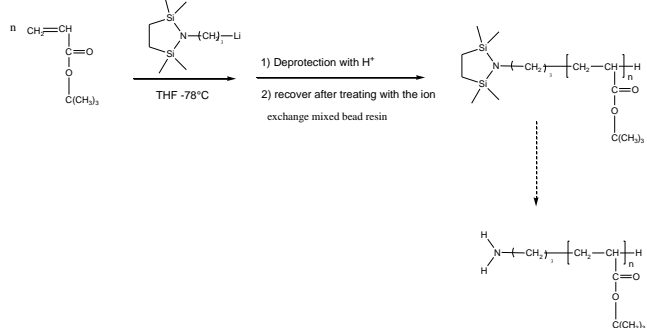


**Composition:**

Mn x 10 <sup>3</sup>	PDI
5.0	1.3

**Synthesis Procedure:**

$\alpha$ -amino terminated poly tert-butylacrylate was synthesized by anionic living polymerization using NH<sub>2</sub> protected initiator. The details please see our published results. Varshney, S. K.; Song, Z.; Zhang, Jian-Xin.; Jerome, Robert. Rapid Communication; J. Polym. Sci. Part A, 2006, 44, 3400.



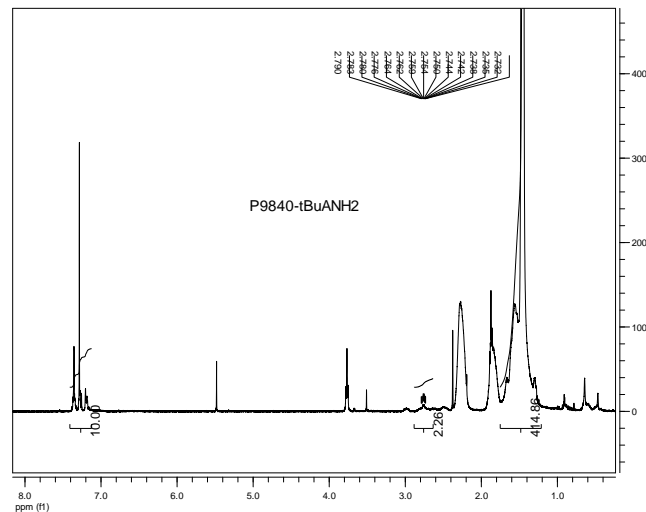
**Characterization:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. However, amino terminated poly tert.butyl acrylate was found to interact with chromatography columns and therefore the amino group was protected by reaction with 1-naphthyl isocyanate before GPC analysis. Removal of the protecting group was confirmed by UV spectroscopy and the degree of functionality was confirmed by titration with HClO<sub>4</sub> using crystal violet as the indicator.

**Solubility:**

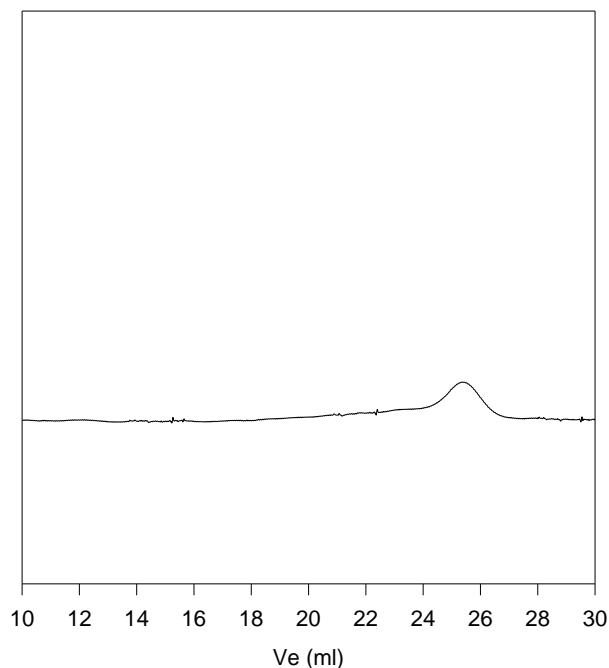
Polymer is soluble in THF, CHCl<sub>3</sub> toluene and precipitated out from water.

**H NMR of the product:**



**SEC of Sample:**

**P9840-tBuANH2**



Size Exclusion Chromatography of Amino Terminated  
Amino protected Poly(tert.butyl acrylate)

M<sub>n</sub>=5000 M<sub>w</sub>=6500, PI=1.3 functionality >0.99%