

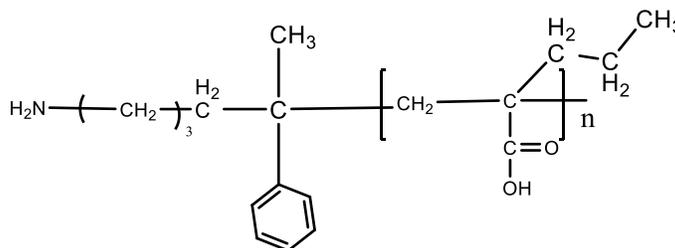
# Product Profile

## Identification

Product Name: Amino Terminated Poly(2-Propyl Acrylic Acid)

Product Lot Number: P44606-PrAANH2

Product Chemical Architecture:



## Composition:

|   |             |
|---|-------------|
| Mn x 10 <sup>3</sup>                            | Mw/Mn (PDI) |
| 5.0   | 1.28        |
| Microstructure of Polymer by <sup>1</sup> H NMR |             |

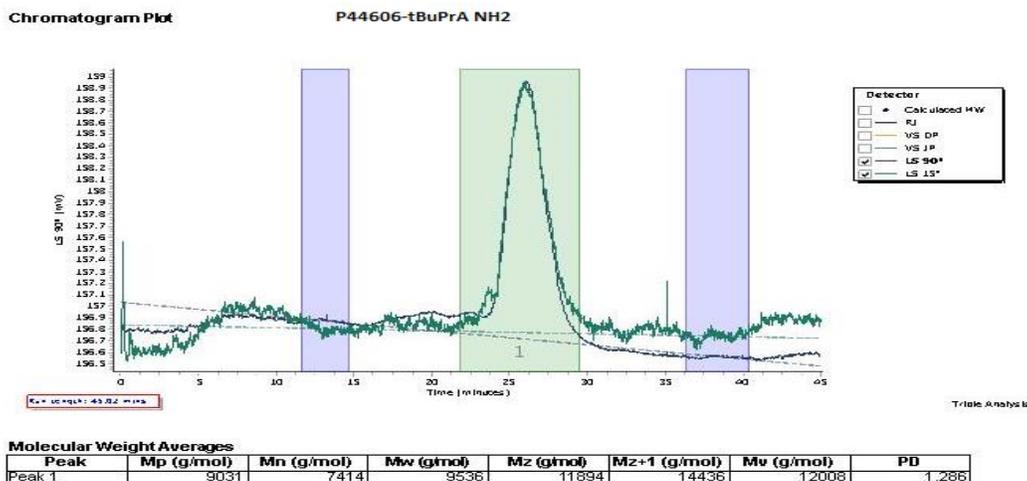
**Method of Synthesis** α-amino terminated poly propyl acrylic acid was synthesized by anionic living polymerization using NH<sub>2</sub> protected initiator. The details please see our published results. Varshney, S. K.; Song, Z.; Zhang, Jian-Xin.; Jerome, Robert. Rapid Communication; J. Polym. Sci. Part A, 2006, 44, 3400.

## Solubility in different solvents

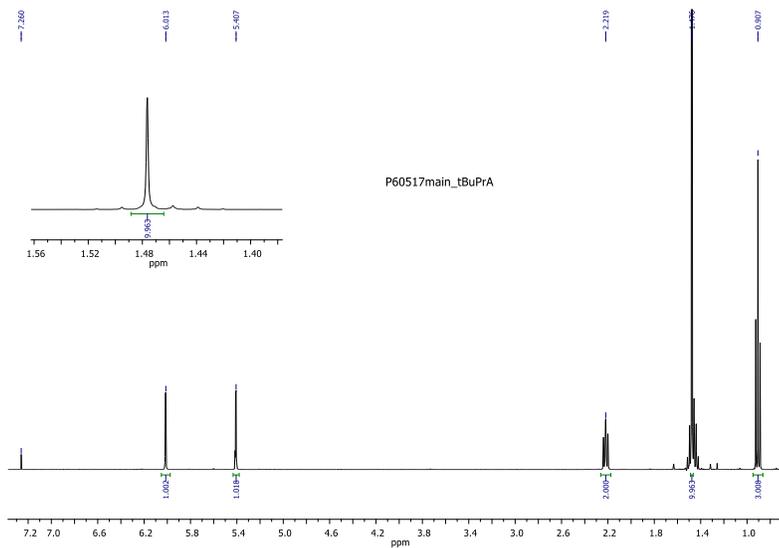
|              |   |  |  |
|--------------|---|--|--|
| THF-Methanol | √ |  |  |
| DMF          | √ |  |  |
|              |   |  |  |

**Purification of Polymer:** to remove unreacted monomer by Soxhlet in Hexane  
**Validation of Architecture:**

## A. Gel Permeation Chromatography (GPC), SEC- Profile of poly tBuPrA



**B. <sup>1</sup>H NMR Spectrum of P60517-tBuPrA:**



**C. NMR (HNMR) of polymer:**

