



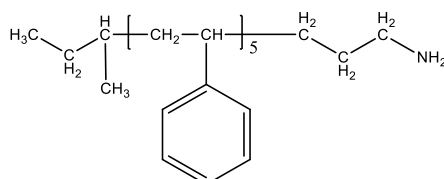
Product Profile

Identification

Product Name: Amino Terminated Polystyrene

Product Lot Number: P44249-SNH2

Chemical Architecture:

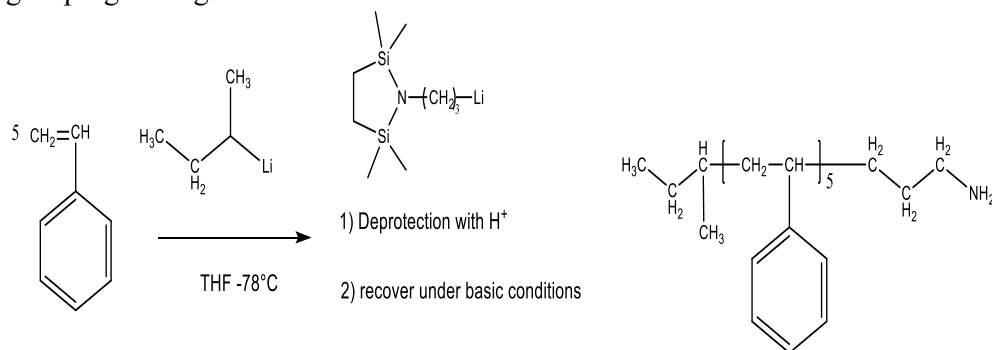


Composition:

| | |
|--------------------|-----------------|
| Mn (g/mole) | 1574,000 |
| Mw (g/mole) | 1885,000 |
| Mw/Mn | 1.20 |
| Tg | 102 °C |

Method of Synthesis

Amino terminated polystyrene was synthesized by anionic living polymerization with different end-grouping strategies. The reaction schemes are shown below:



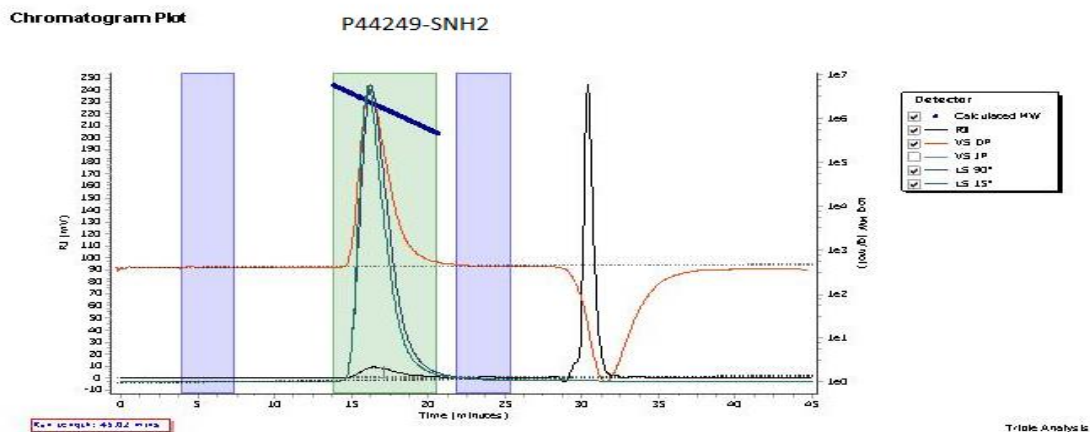
Solubility in different solvents:

| | | | |
|-----------------|---|----------|---|
| THF | √ | Methanol | X |
| CHCl_3 | √ | Hexane | X |
| Toluene | √ | | |

Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC Profile:

The product was characterized by size exclusion chromatography (SEC).



Molecular Weight Averages

| Peak | Mp (g/mol) | Mn (g/mol) | Mw (g/mol) | Mz (g/mol) | Mz+1 (g/mol) | Mv (g/mol) | PD |
|--------|------------|------------|------------|------------|--------------|------------|-------|
| Peak 1 | 2197588 | 1574608 | 1885548 | 2154269 | 2376410 | 2121950 | 1.197 |