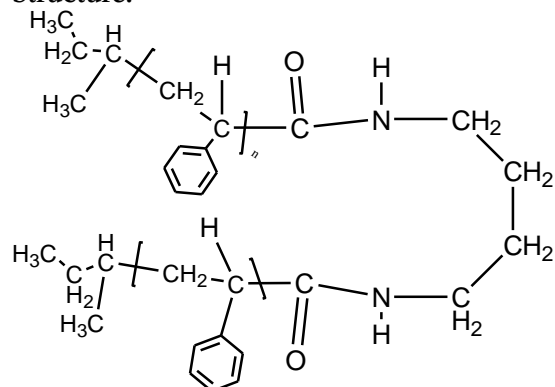


Sample Name: Polystyrene bearing diamino unit in the middle of polymer chain

Sample #: P18874A-SDABS

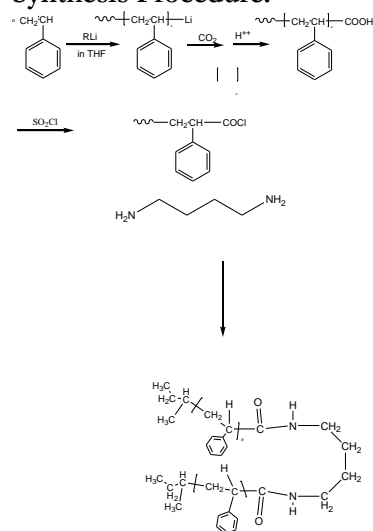
**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
4.0	1.35
Functionality %	90
<p>PS-NH<sub>2</sub></p>	>15%

**Synthesis Procedure:**



**Characterization:**

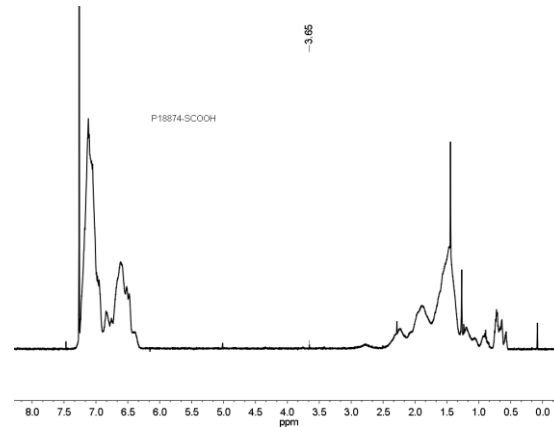
BY SEC and HNMR.

**Solubility:**

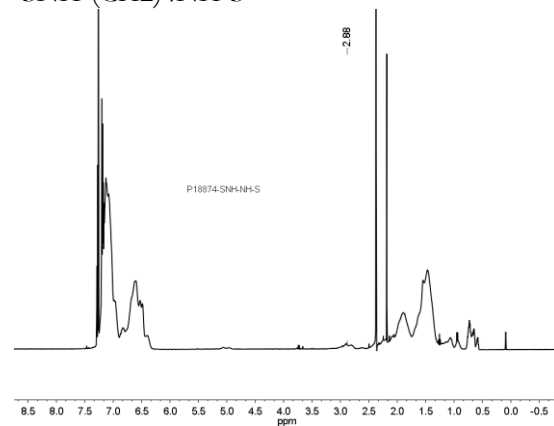
Polymer is soluble in toluene, THF, CHCl<sub>3</sub> and can be precipitated in water and cold methanol.

**H NMR:**

1. SCOOH:

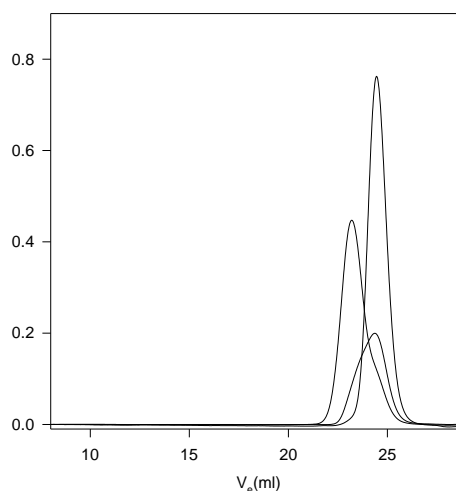


2. SNH-(CH<sub>2</sub>)<sub>4</sub>NH-S



**SEC of Sample:**

**P18874A-SDABS**



Size exclusion chromatography of polymer in THf at 30 oC

1. PS-COOH Mn =2,300 Mw: 2,400 Mw/Mn:1.04
2. PS-NH<sub>2</sub> (terminated with diamino butane) Mn 2300
3. PS-DAB-PS: unit of diamino butane in the middle of polymer chain