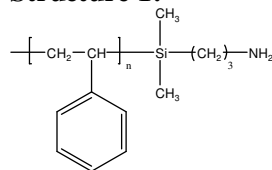


Sample Name: Amino Terminated Polystyrene

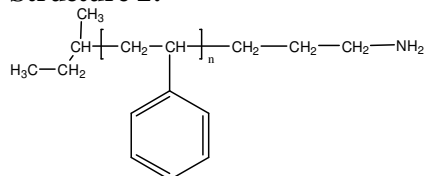
Sample #: P19596-SNH2

This lot bears structure # 2

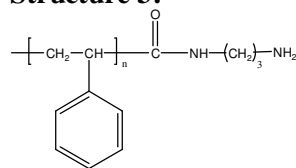
Structure 1:



Structure 2:



Structure 3:

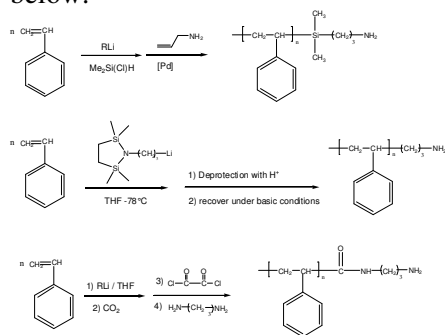


Composition:

$M_n \times 10^3$	PDI
19.5	1.06

Synthesis Procedure:

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



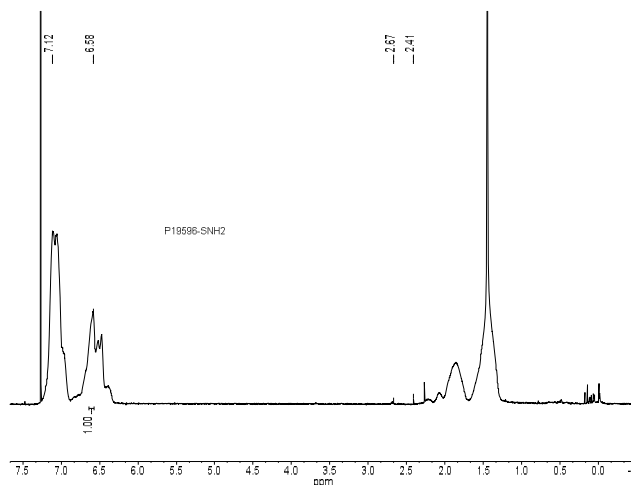
Characterization:

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 polystyrene 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_4 using crystal violet as the indicator.

Solubility: Polymer is soluble in THF, CHCl_3 toluene and precipitated out from methanol and hexane.

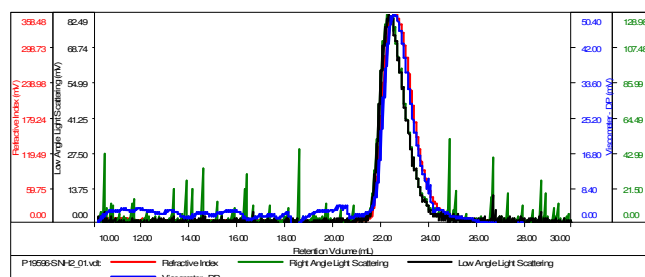
^1H NMR:



SEC of Sample:

Sample ID-P19596-SNH2

Concentration (mg/mL)	2.6760
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-June30-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19596-SNH2_01.vcl	19,522	20,741	23,123	1.062	0.7318