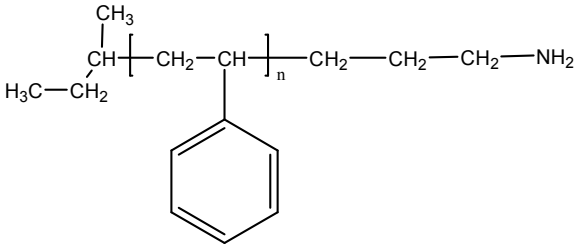
Sample Name: **Amino Terminated Polystyrene**

Sample #: **P40302-SNH2**

Structure:



Composition:

Mn × 10^3	PDI
2.5	1.11

Synthesis Procedure:
α-amino terminated polystyrene was synthesized by anionic living polymerization.

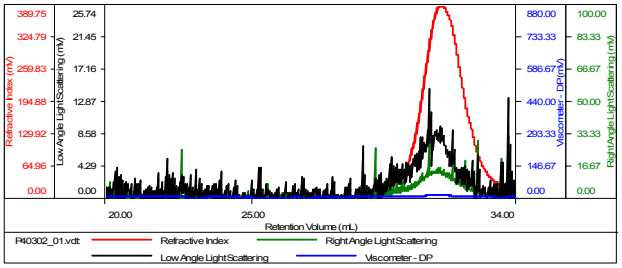
Characterization:
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. However, amino terminated polystyrene was found to interact with chromatography 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, Chloroform, and toluene. It precipitated out from methanol and hexane.

SEC elugram of Sample:

P40302-SNH2

Concentration (mg/mL)	9.5627
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Nov2016-6-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40302_01.vdt	2,388	2,663	1.115	0.0672	2,283

H NMR Spectrum of the Sample: