

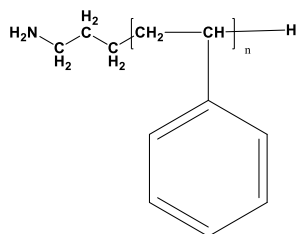
Product Profile

Identification

Product Name: Amino Terminated Polystyrene

Product Lot Number: P45006J-SNH2

Chemical Architecture:

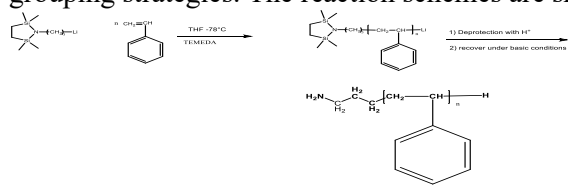


Composition:

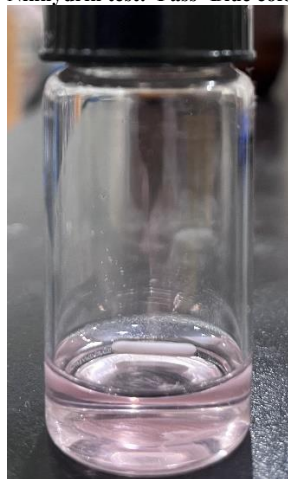
Mn (g/mole)	704,000
Mw (g/mole)	708,000
Mw/Mn	1.01
Tg	102 °C

Method of Synthesis

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



Ninhydrin test: Pass- Blue color



Solubility in different solvents:

THF	√	Methanol	X
CHCl ₃	√	Hexane	X
Toluene	√		

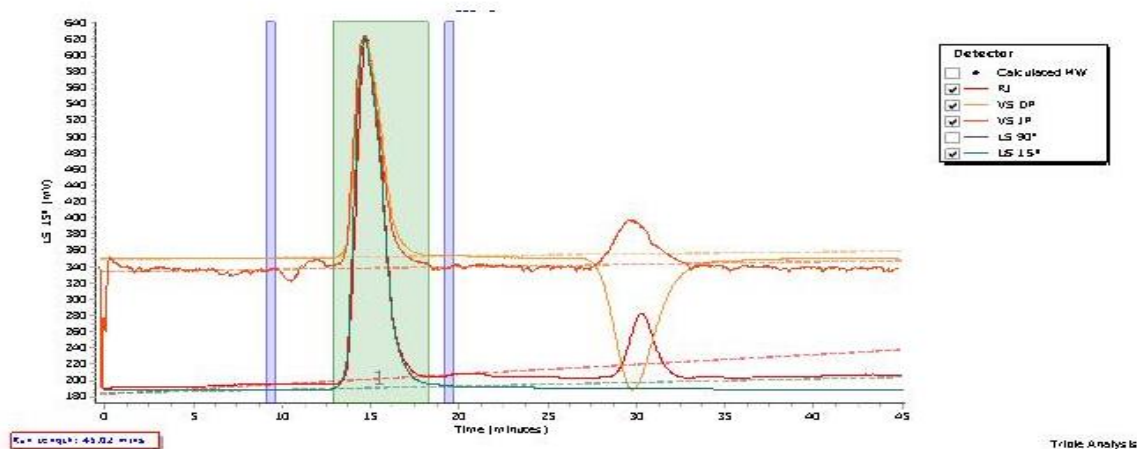
Validation of Architecture

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

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

Chromatogram Plot

P45006J-SNH2



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	727992	704081	707798	711372	714808	710818	1.005

B. H NMR

