



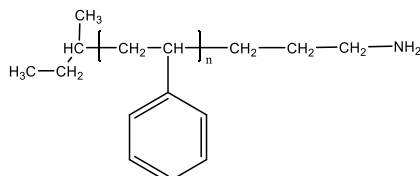
Product Profile

Identification

Product Name: Amino Terminated Polystyrene

Product Lot Number: P18806-SNH2

Chemical Architecture:

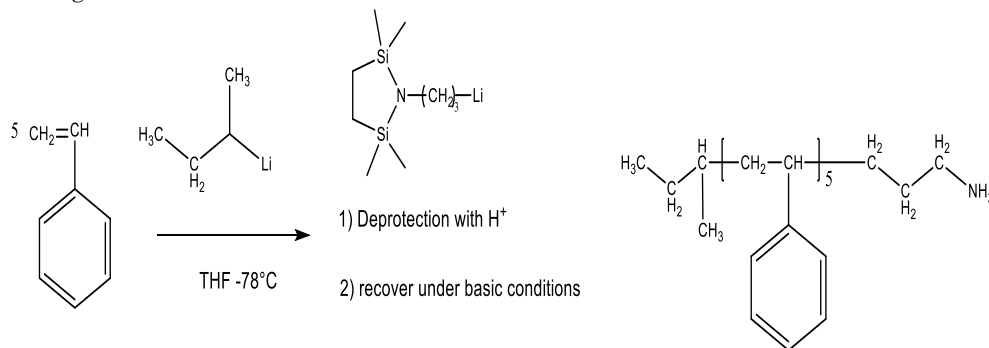


Composition:

Mn (g/mole)	1,500
Mw (g/mole)	1,700
Mw/Mn	1.16

Method of Synthesis

α , ω -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	√		

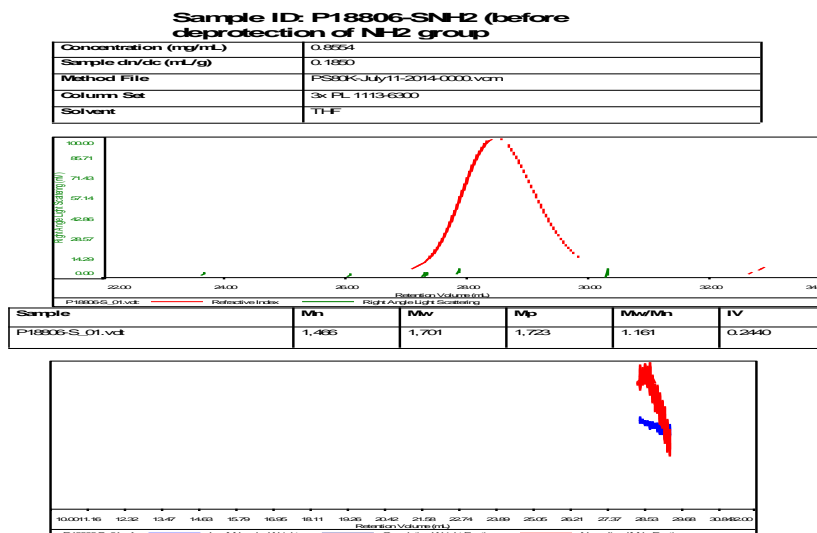
Validation of Architecture

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

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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.



B. ^1H NMR spectrum of TMPCAD:

