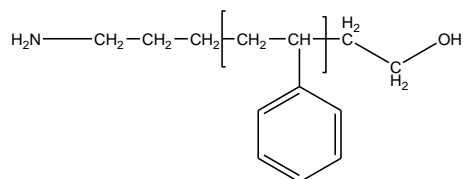


**Sample Name:**  $\alpha$ -Amino  $\omega$ -hydroxy Terminated Polystyrene

**Sample #:** P41369-NH2SOH

**Structure:**

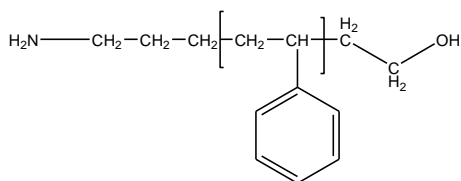
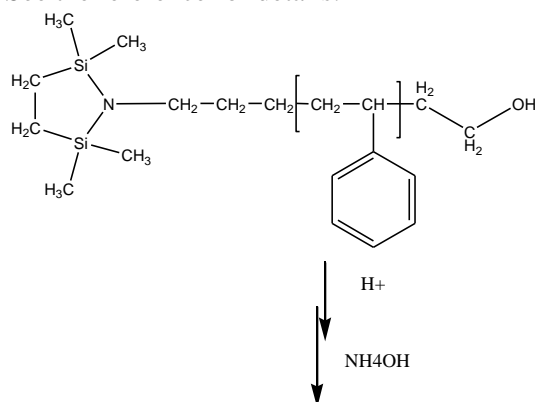


**Composition:**

$\text{Mn} \times 10^3$	PDI
4.0	1.15

**Synthesis Procedure:**

The polymer is prepared as following scheme:  
See the reference for details.



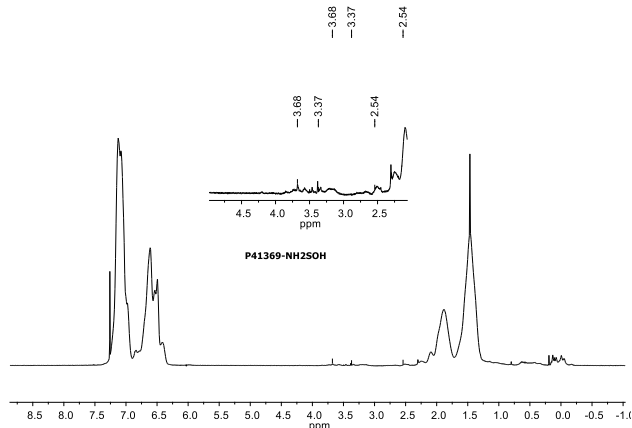
**Characterization:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC).

**Solubility:**

Polymer is soluble in THF,  $\text{CHCl}_3$ , Toluene, dioxane and precipitated out from methanol/water or in cold hexane.

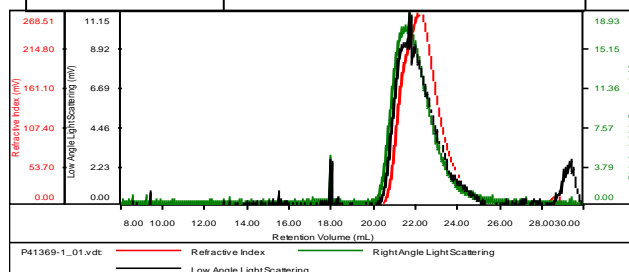
**H NMR spectrum of the Sample:**



**SEC elugram of the Sample:**

P41369-1

Concentration (mg/mL)	6.6941
Sample dn/dc (mL/g)	0.1850
Method File	PS100K-0924-2018-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P41369-1_01.vdt	3,903	4,514	1.157	0.9909	3,688

**References for further information:**

1. Varshney, S. K.; Song, Z.; Zhang, Jian-Xin.; Jerome, Robert. Rapid Communication; J. Polym. Sci. Part A, 2006, 44, 3400.
2. S. K. Varshney, Ph. Bayard, C. Jacobs, R. Jerome, R. Fayt and Ph. Teyssie  
"Anionic Polymerization of Meth(acrylic) Monomers-8; Synthesis and Characterization of (Meth)acrylic end-functionalized Polymers: Macromonomers and Telechelics" CA 117, 18, 172243. Macromolecules, 1992, 25, 5578-5584.