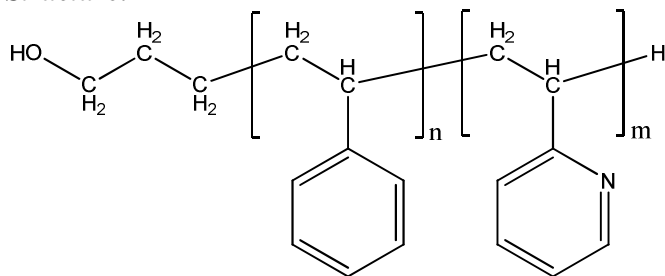


Sample Name: Hydroxy terminated Poly(styrene-b-2 vinyl pyridine)

Sample #: P19894A- HOS2VP

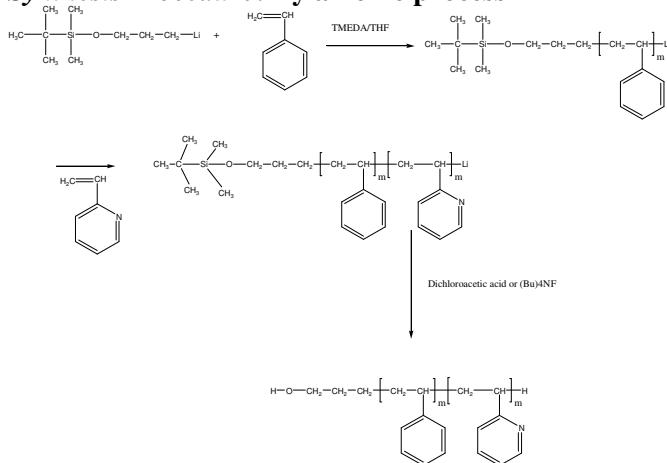
Structure:



Composition:

Mn x 10 ³ S-b-2VP	PDI
88.0-b-13.0	1.25
T _g for PS block: 102°C	

Synthesis Procedure: By anionic process



Characterization:

The polymer was characterized by GPC and ¹H NMR.

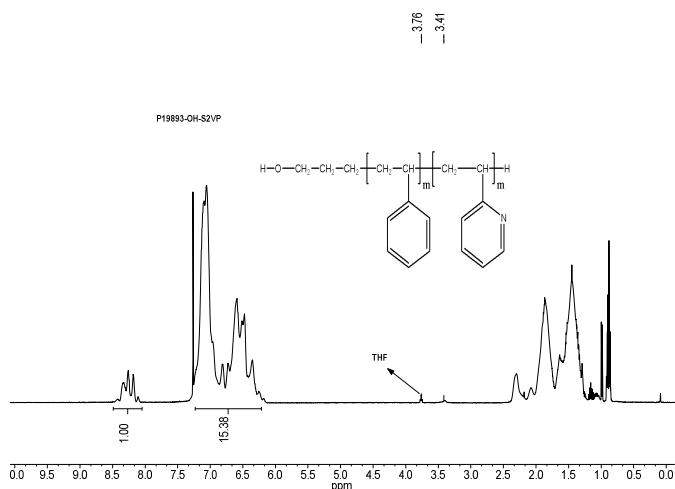
Purification:

Purification of the obtained polymer was carried out rigorously as follows to ensure the removal of the catalyst side product:

1. Polymer first soxhlet in cyclohexane to remove trace amount of homopolystyrene fraction if any present.
2. Dissolved the polymer in CHCl₃ and wash with de-ionized distilled water to remove any soluble organic catalyst side product.

3. Polymer extracted from water with chloroform.
4. Polymer solution in CHCl₃ was dried over anhydrous sodium sulfate.
5. Solution filtered and then passed through a column packed with basic Al₂O₃.
6. Solution concentrated on rota-evaporator
7. Solution precipitated in cold hexane
8. Final dried under vacuum for 48h at 5°C

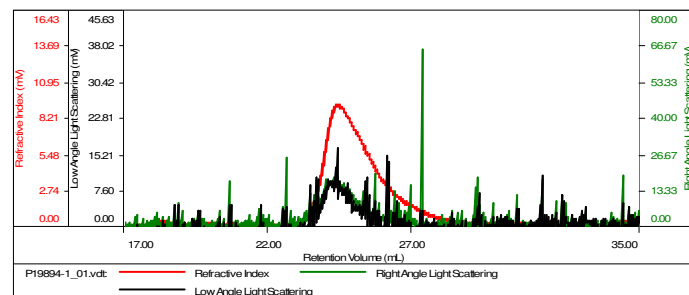
¹H NMR Spectrum of the polymer



SEC elugram of the polymer:

Sample ID: P19894-1

Concentration (mg/mL)	0.2313
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-May112016-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P19894-1_01.vdt	88,003	110,593	1.257	6.6534	123,080