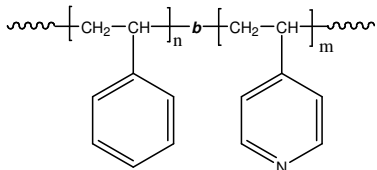


Sample Name: Poly(styrene-b-4-vinyl pyridine)

¹H NMR spectrum of the polymer:

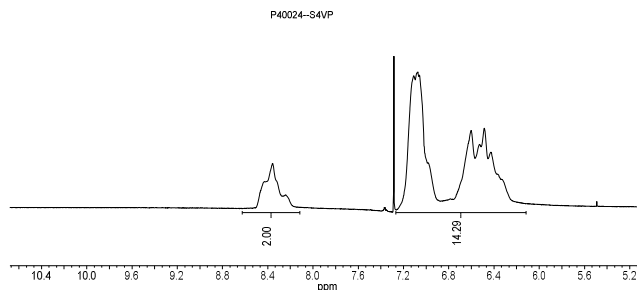
Sample #: P40068A-S4VP

Structure:



Composition:

Mn x 10 ³ PS-b-4VP	PDI
140.0-b-156.0	1.6



SEC elugram of the polymer:
P40068A-S4VP

Conc (mg/mL)	1.6031
dn/dc (mL/g)	0.1600
Method	PS80k-August-08-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS

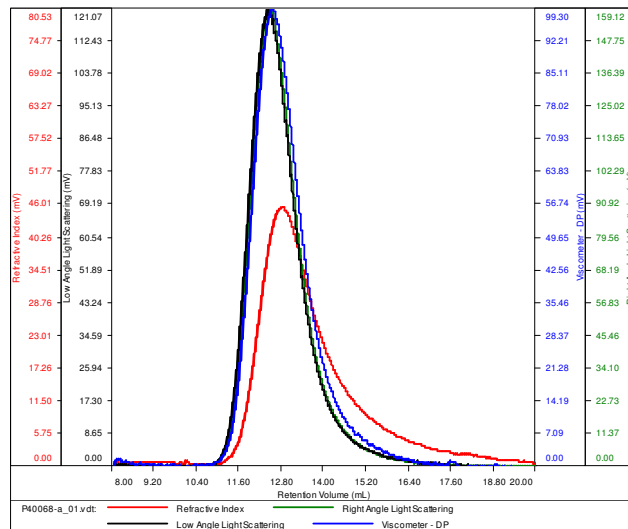
Synthesis Procedure: The polymer was synthesized by anionic process.

Characterization: The polymer was characterized by SEC and ¹H NMR.

The composition of the block copolymer can also be determined by titration in acetic acid/HClO₄ using crystal violet indicator. Copolymer PDI is determined by SEC.

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 15°C/min. The inflection glass transition temperature (T_g) of the sample has been considered.

Solubility: Poly(styrene-b-4-vinyl pyridine) is soluble in CHCl₃ DMF.



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40068-a_01.vdt	296,245	495,125	563,560	1.671	1.1562

References:

- (1). S. K. Varshney, X. F. Zhong & A. Eisenberg *Macromolecules*, **1993**, 26, 701-706.
- (2). Z.Gao, S. K. Varshney, S. Wong, A. Eisenberg *Macromolecules*, **1994**, 27, 7923-7927.