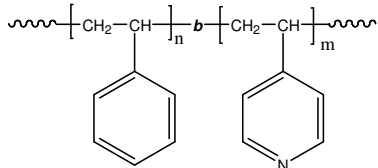


Sample Name: Poly(styrene-b-4-vinyl pyridine)

Sample #: P19971-S4VP

Structure:



Composition:

Mn x 10 ³ PS-b-4VP	PDI
273.0-b-1.0	1.04

T _g for PS block: 103°C	T _g for 4VP block:
------------------------------------	-------------------------------

Synthesis Procedure:

The polymer was synthesized by anionic process.

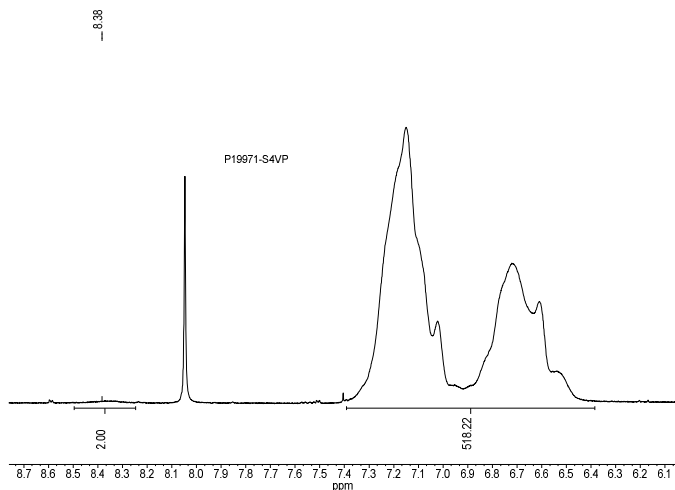
Characterization:

The polymer was characterized by ¹H NMR, SEC.

Solubility:

Poly(styrene-b-4-vinyl pyridine) is soluble in DMF, CHCl₃. The polymer can also be solubilized in THF depending on its chemical composition. The polymer readily precipitates from hexanes and diethyl ether.

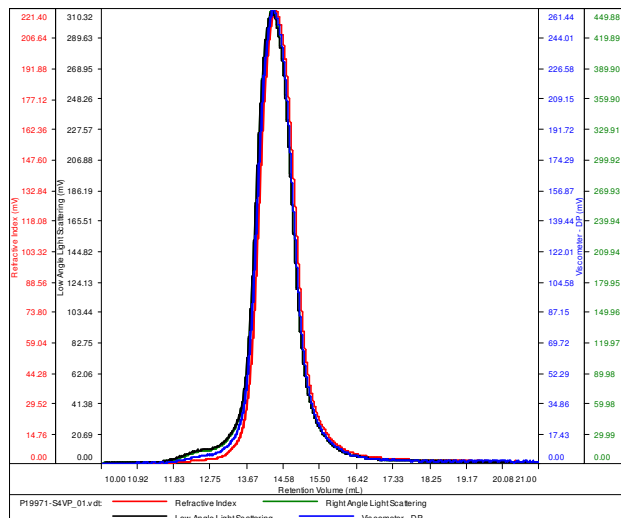
¹H NMR Spectrum of the polymer:



SEC elugram of the polymer:

P19971-S4VP

Conc (mg/mL)	5.7206
dn/dc (mL/g)	0.1600
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P19971-S4VP_01.vdt	274,375	287,326	275,195	1.047	0.5517

References:

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