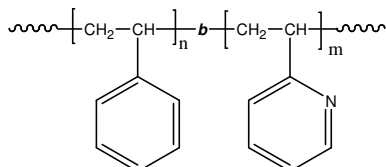


Sample Name:
Polystyrene-*block*-poly (2-vinyl pyridine)

Sample #: P19933-S2VP

Structure:



Composition of PS-*b*-P2VP diblock copolymer:

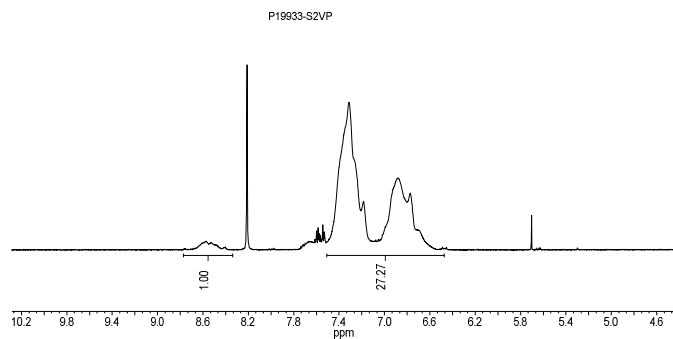
$M_n \times 10^3$ (g/mol)	PDI
327.0-b-70.0	1.05

Synthesis:

Polystyrene-*b*-poly (2-vinyl pyridine) was prepared by living anionic polymerization in THF at -78°C in the presence of LiCl as an additive.

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

^1H NMR spectrum of PS-*b*-P2VP:



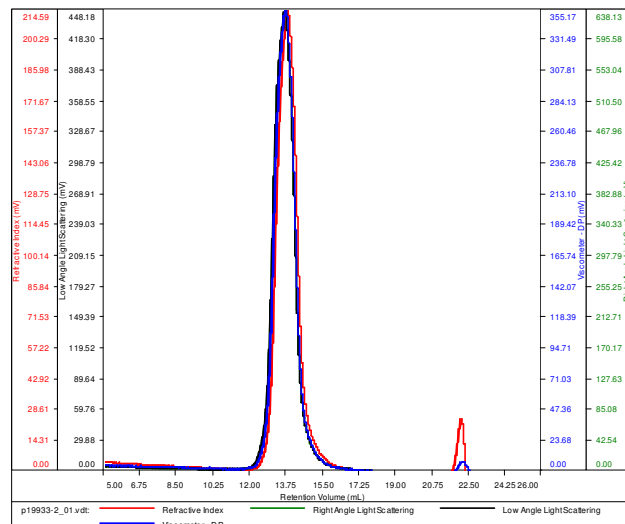
References:

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.

SEC elugram of PS-*b*-P2VP in DMF:

P19933-S2VP

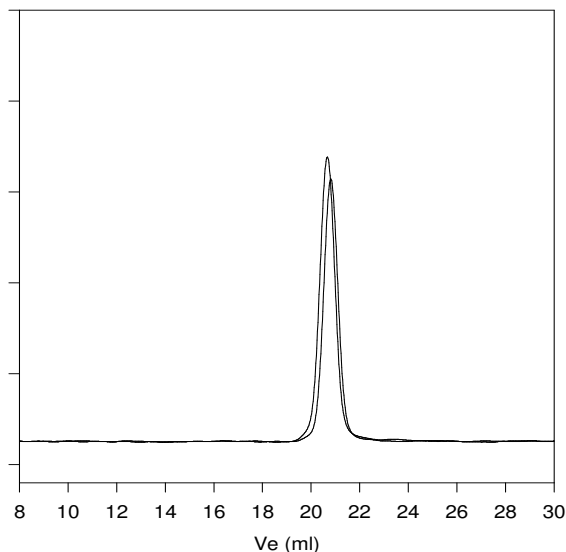
Conc (mg/mL)	5.8482
dn/dc (mL/g)	0.1580
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
p19933-2_01.vdt	408,217	428,940	414,629	1.051	0.7532

SEC elugram of PS-*b*-P2VP in THF:

P19933-S2VP



Size exclusion chromatography of poly(styrene-*b*-2-vinyl pyridine)

— Polystyrene, $M_n=327,000$ $M_w:344,000$ $PI=1.07$

— Polystyrene(327,000)-*b*-Poly(2-vinyl pyridine)(70,000), $PI=1.05$

(v.K-01)