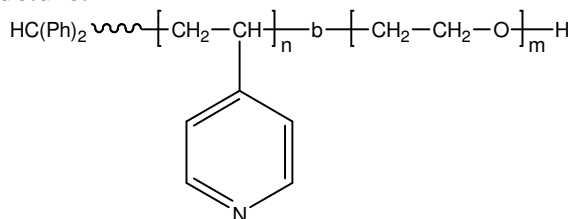


Sample Name: Poly(4-vinyl pyridine -b- ethylene oxide)

Sample #: P19952-4VPEO

Structure:

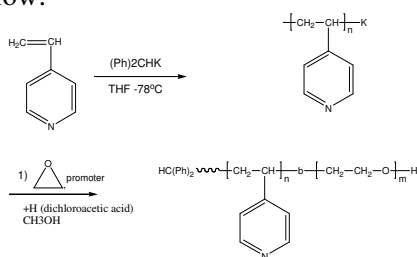


Composition:

Mn x 10 ³ P4VP-b-PEO	PDI
4.5-b-10.0	1.5

Synthesis Procedure:

Poly(4-vinyl pyridine -b- ethylene oxide) is prepared by living anionic polymerization of ethylene oxide using potassium salt based initiator. The reaction scheme is shown below:



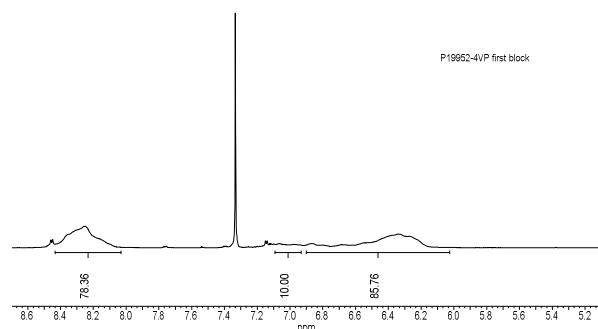
Characterization:

The polymer was characterized by SEC in DMF and ¹H NMR.

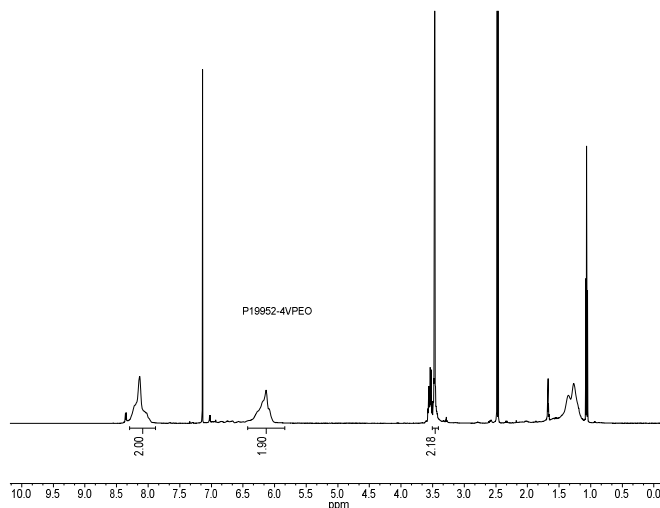
Solubility:

Poly(4-vinyl pyridine -b- ethylene oxide) is soluble in ethanol, DMF, chloroform, and THF (hot). Hexanes are its non-solvent.

¹H NMR spectrum of the first block



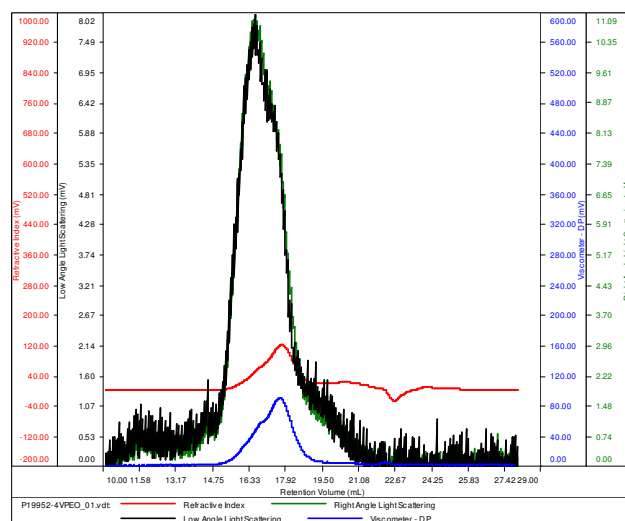
¹H NMR Spectrum of the block copolymer:



SEC elugram of the polymer:

P19952-4VPEO

Conc (mg/mL)	7.2086
dn/dc (mL/g)	0.1100
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P19952-4VPEO_01.vdt	14,404	22,466	11,221	1.560	0.2474