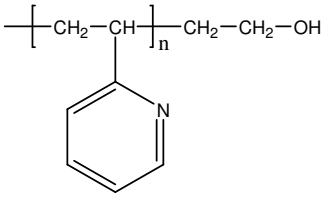
Sample Name:
Hydroxy Terminated Poly(2-Vinyl Pyridine)

Sample #: P18792-2VPOH

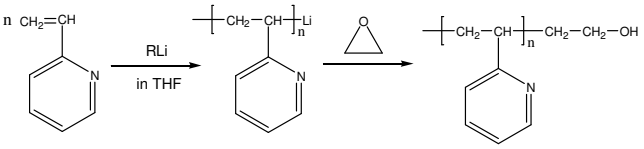
Structure:



Composition:

M_n x 10^3	PDI
8.5	1.10
Functionality %	0.95
T_g for the functional polymer	91°C

Synthesis Procedure:
Hydroxy terminated poly(2-vinyl pyridine) was prepared by living anionic polymerization of 2-vinyl pyridine in THF and terminated with ethylene oxide. The scheme of the reaction is illustrated below:



Characterization:
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

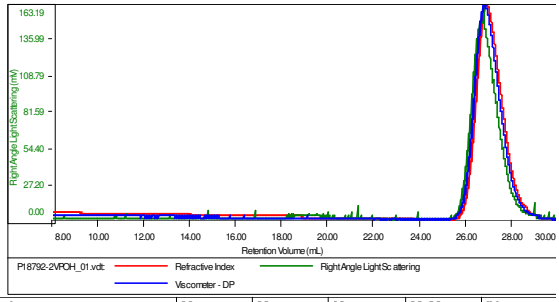
Thermal analysis:
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min.The inflection glass transition temperature (T_g) has been considered.

Solubility:
Polymer is soluble in $CHCl_3$ and THF.

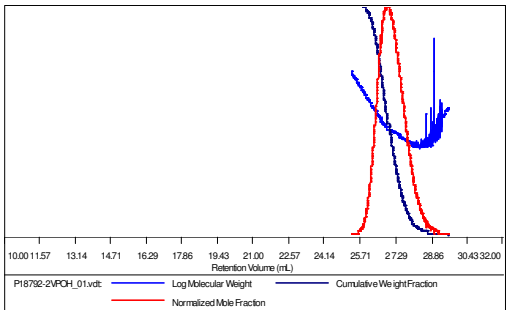
SEC of Sample:

Sample ID: P18792-2VPOH

Concentration (mg/mL)	7.2781
Sample dn/dc (mL/g)	0.1670
Method File	PS80K-July11-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18792-2VPOH_01.vdt	8,722	9,299	9,186	1.066	0.4209



DSC thermogram for the sample: