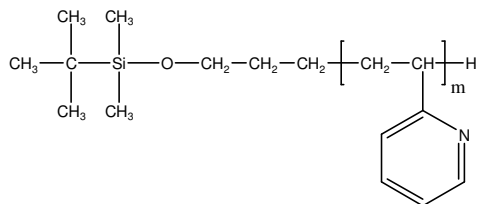


Sample Name:

**Tert.butyl dimethyl siloxy propyl end terminated
Poly(2-Vinyl Pyridine)**

Sample #: P19106C-tBuDMSPPr2VP

Structure:

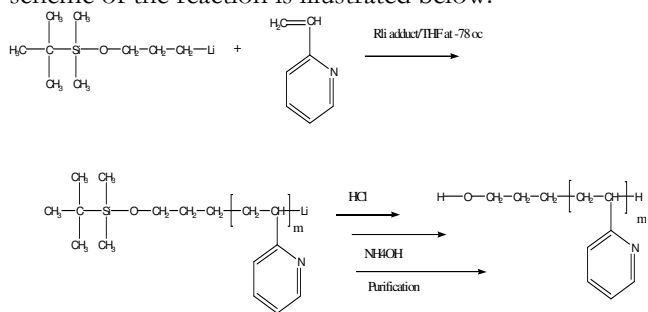


Composition:

M _n x 10 ³	PDI
20.5	1.09
Functionality %	>99%
T _g for the functional polymer	94°C

Synthesis Procedure:

Hydroxy terminated poly(2-vinyl pyridine) was prepared by living anionic polymerization of 2-vinyl pyridine in THF using OH protected initiator. 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.

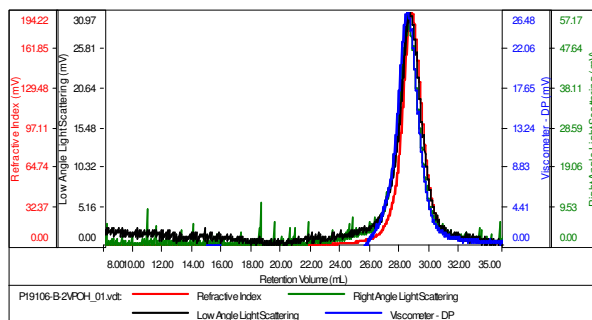
Solubility:

Polymer is soluble in CHCl_3 and THF.

SEC of Sample precursor:

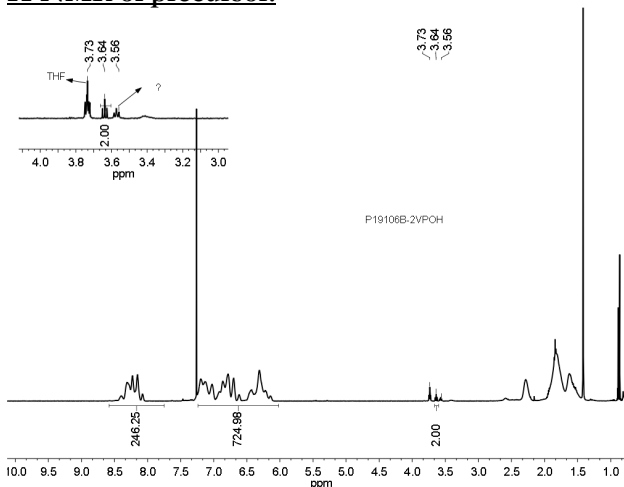
Sample ID: P19106B-2VPOH

Concentration (mg/mL)	5.7199
Sample chnrc (mL/g)	0.1670
Method File	PS80K-Jan22-2015-0003.xcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19106-B-2VPOH_01.xdt	20,762	22,816	19,941	1.099	0.1830

H NMR of precursor:



DSC thermogram for the sample:

