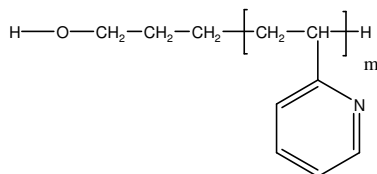


**Sample Name:**

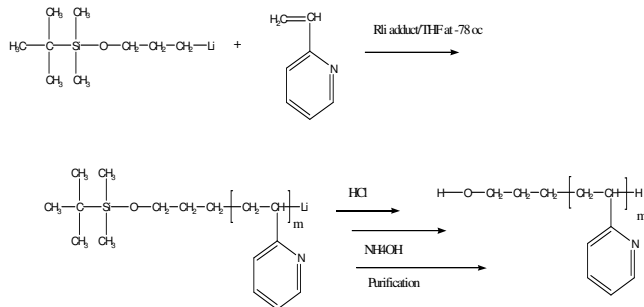
Hydroxy Terminated Poly(2-Vinyl Pyridine)

**Sample #:** P19125-2VPOH**Structure:****Composition:**

$M_n \times 10^3$	PDI
9.6	1.07
Functionality %	>99%
$T_g$ for the functional polymer	77°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:**

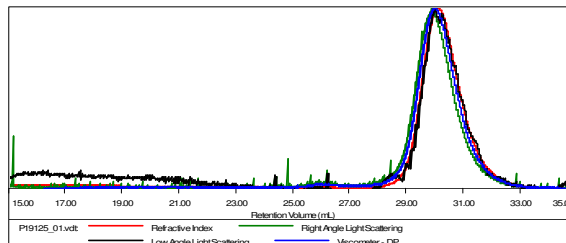
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature ( $T_g$ ) has been considered.

**Solubility:**

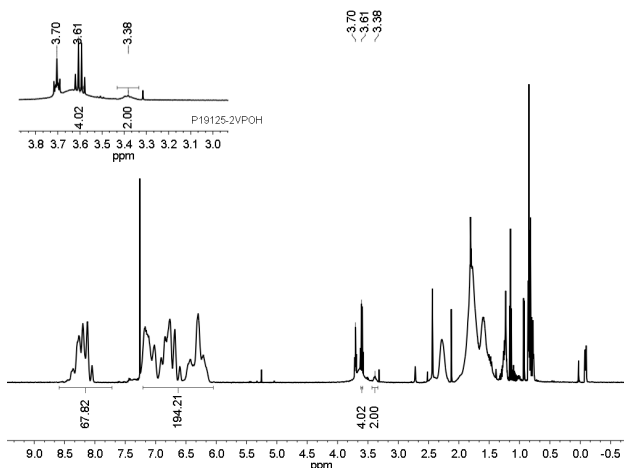
Polymer is soluble in  $\text{CHCl}_3$  and THF.

**SEC of Sample:****Sample ID:** P19125-2VPOH

Concentration (mg/mL)	27.0155
Sample drydc (mL/g)	0.1670
Method File	PS80K-March6-2015-0000.vcm
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)
P19125_01.vcl	9,682	10,373	9,690	1.071	0.0571

**H NMR:****DSC thermogram for the sample:**