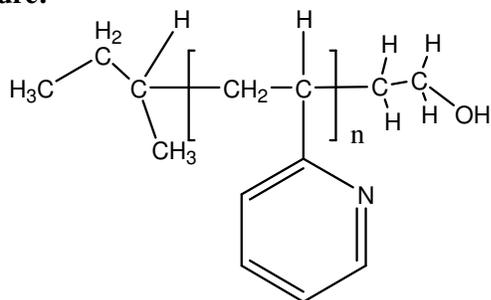
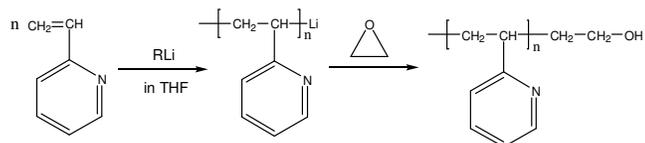


**Sample Name:** **$\alpha$ -Hydroxy-Terminated Poly(2-Vinyl Pyridine)****Sample #: P19525-2VPOH****Structure:****Composition:**

$M_n \times 10^3$	Mw/Mn
2.8	1.15
-OH functionality:	99 %
$T_g$ of P2VP-OH:	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:**

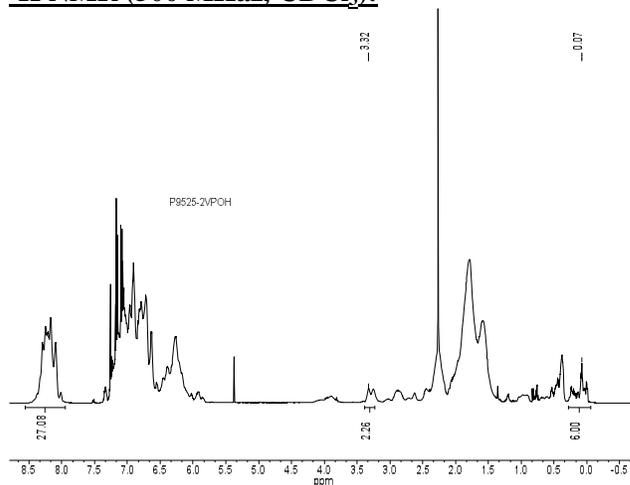
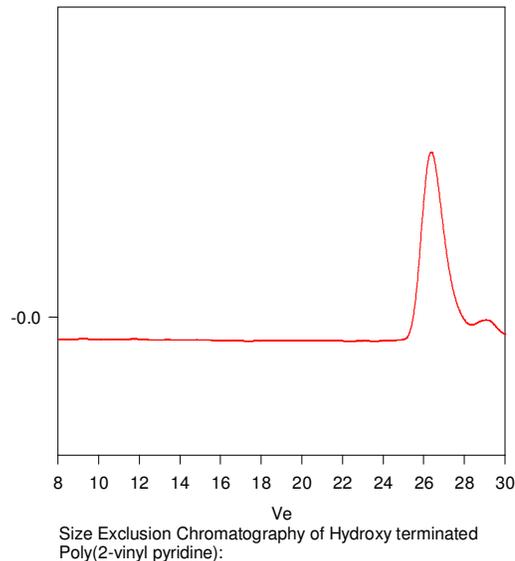
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**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.

 **$^1H$  NMR (500 MHz,  $CDCl_3$ ):****SEC of the polymer:****P19525 -2VPOH**

$M_n = 2,800$ ,  $M_w = 3,300$ ,  $PI = 1.15$

**DSC thermogram:**