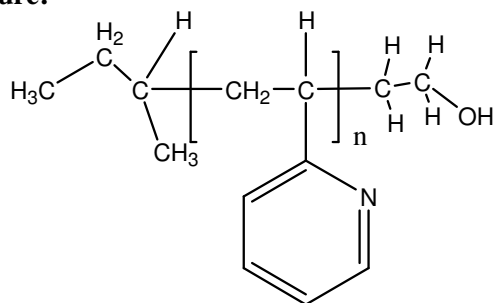
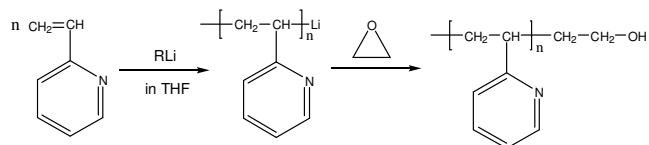


**Sample Name:** **$\alpha$ -Hydroxy-Terminated Poly(2-Vinyl Pyridine)****Sample #: P19526-2VPOH****Structure:****Composition:**

$M_n \times 10^3$	Mw/Mn
2.5	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:**

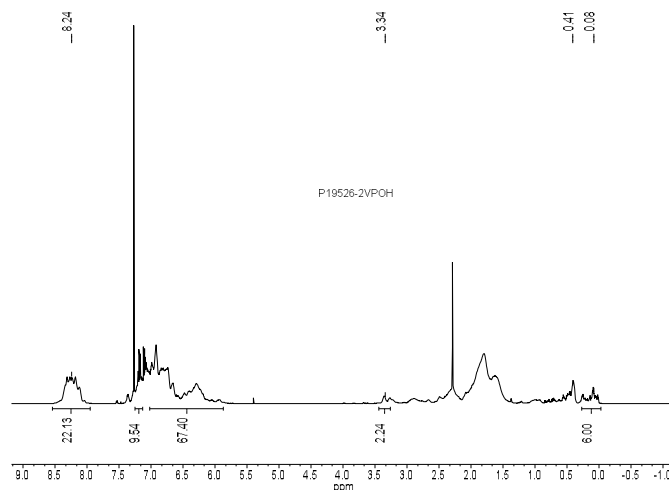
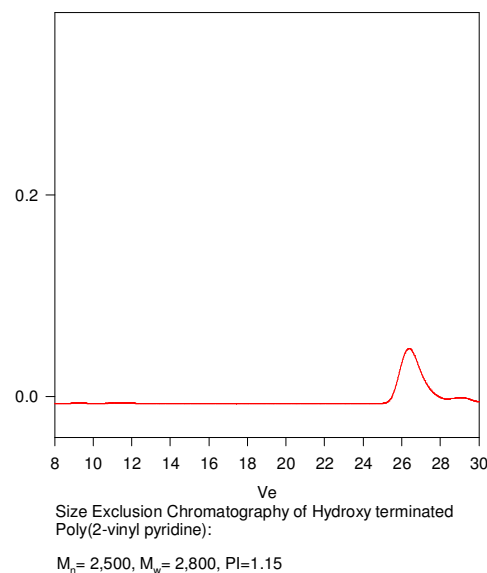
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**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  $\text{CHCl}_3$  and THF.

 **$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ):****SEC of the polymer:****P19526 -2VPOH****DSC thermogram:**