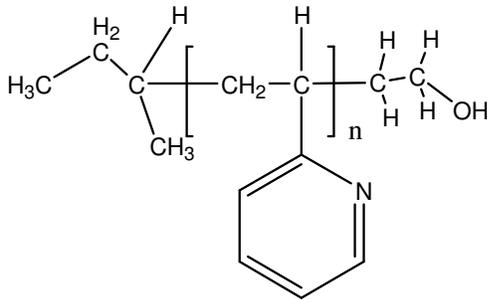
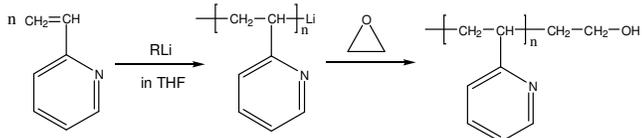


Sample Name: **α -Hydroxy-Terminated Poly(2-Vinyl Pyridine)****Sample #: P19526-2VPOH****Structure:****Composition:**

| | |
|--------------------|-------|
| $M_n \times 10^3$ | 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:**

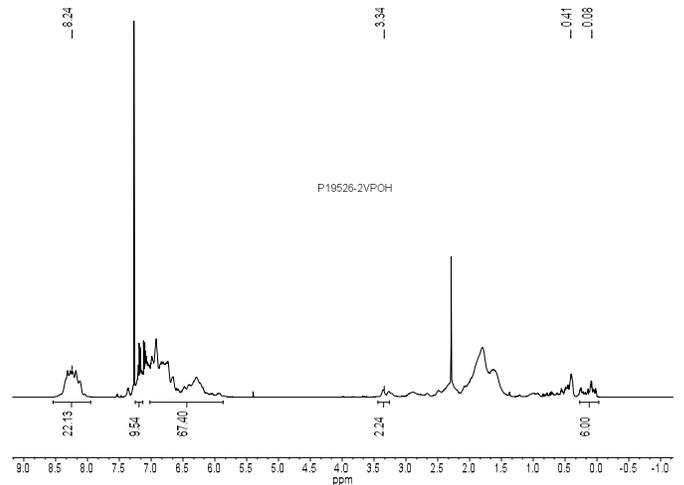
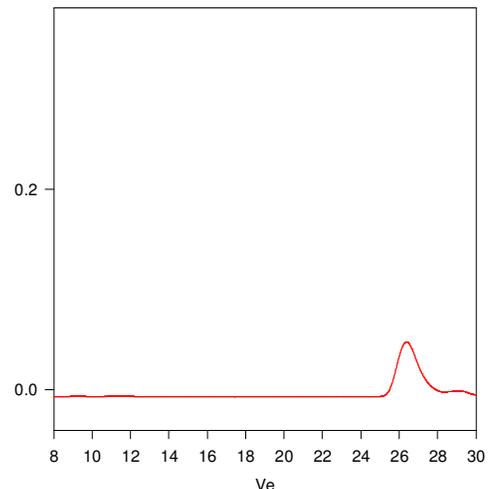
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

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 $CHCl_3$ and THF.

 1H NMR (500 MHz, $CDCl_3$):**SEC of the polymer:****P19526 -2VPOH**

Size Exclusion Chromatography of Hydroxy terminated Poly(2-vinyl pyridine):

$M_n = 2,500$, $M_w = 2,800$, $PI = 1.15$

DSC thermogram: