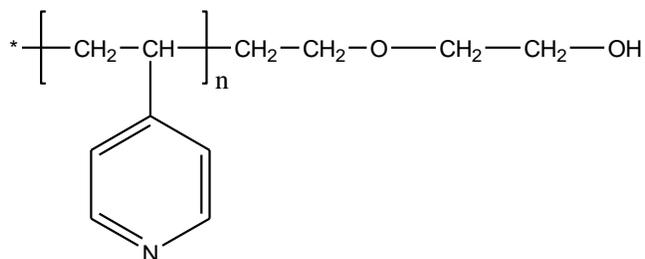


**Sample Name:**  
**Hydroxy Terminated Poly(4-Vinyl Pyridine)**

**Sample #: P9755-4VPOH**

**Structure:**

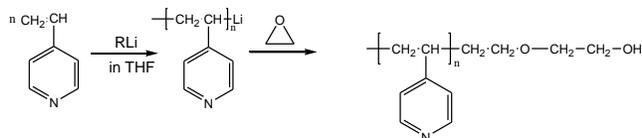


**Composition:**

$M_n \times 10^3$	PDI
5.0	1.28
Functionality %	0.95
$T_g$ for the functional polymer	

**Synthesis Procedure:**

Hydroxy terminated poly(4-vinyl pyridine) was prepared by living anionic polymerization of 4-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.

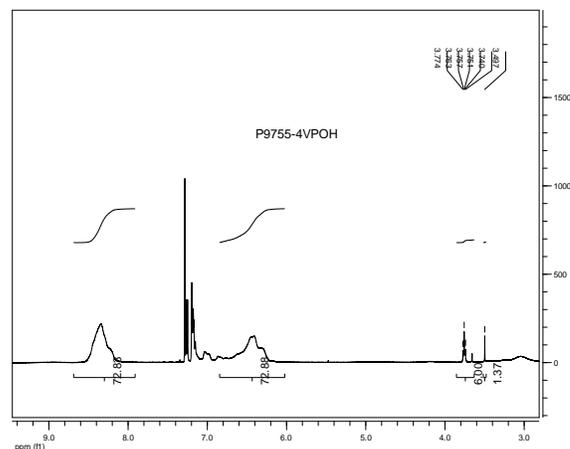
**Thermal analysis:**

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.

**HNMR of the Polymer:**



**SEC of sample:**

