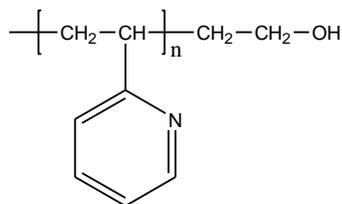


**Sample Name:**  
**Hydroxy Terminated Poly(2-Vinyl Pyridine)**

**Sample #:** P7544-2VPOH

**Structure:**

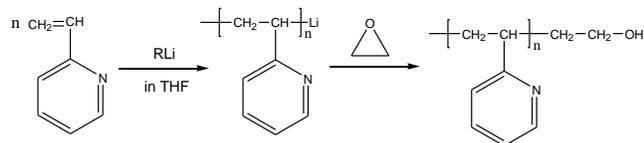


**Composition:**

$M_n \times 10^3$	PDI
6.2	1.05
Functionality %	0.95
$T_g$ for the functional polymer	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:**

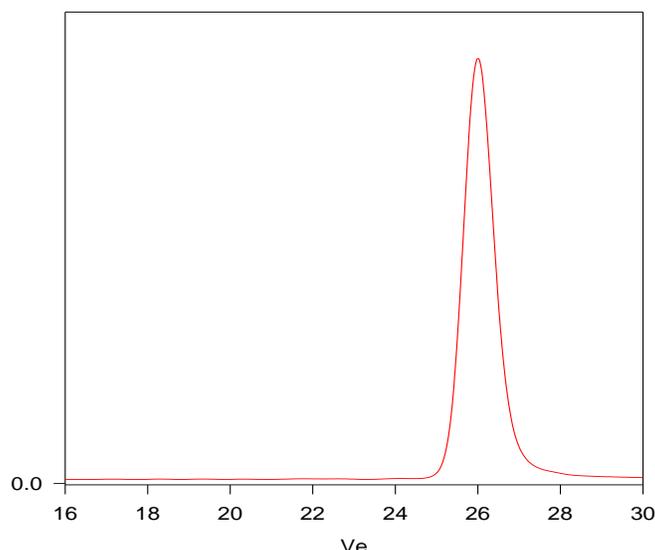
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature ( $T_g$ ) has been considered.

**Solubility:**

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

**SEC of Sample:**

**P7544- 2VPOH**



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

$M_n = 6200$ ,  $M_w = 6500$ ,  $PI = 1.05$   
Solution Viscosity in THF at 35 oC: 0.067dl/g  
 $dn/dc$  in THF at 35 oC: 0.167ml/g

**DSC thermogram for the sample:**

