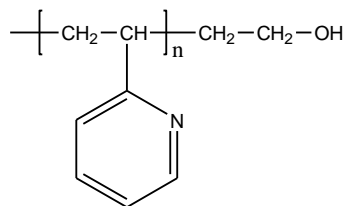


Sample Name:
Hydroxy Terminated Poly(2-Vinyl Pyridine)

Sample #: P7544-2VPOH

Structure:

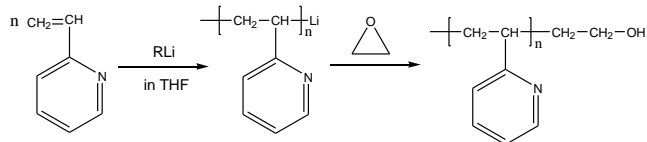


Composition:

$M_n \times 10^3$	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:

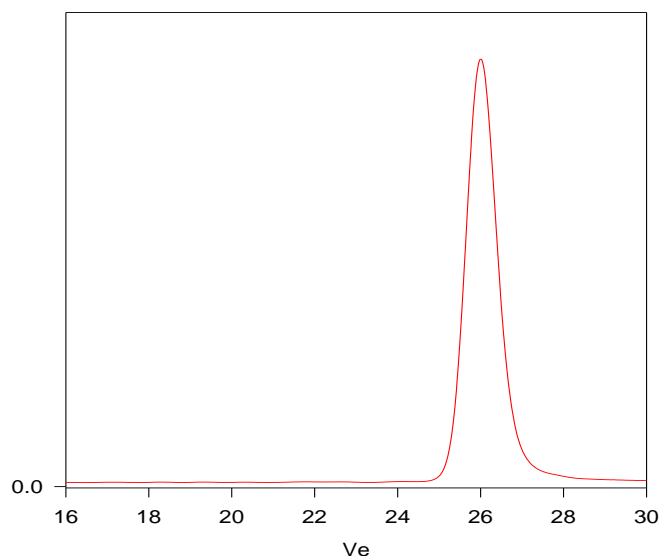
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

Solubility:

Polymer is soluble in $CHCl_3$ 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 °C: 0.067 dL/g

dn/dc in THF at 35 °C: 0.167 mL/g

DSC thermogram for the sample:

