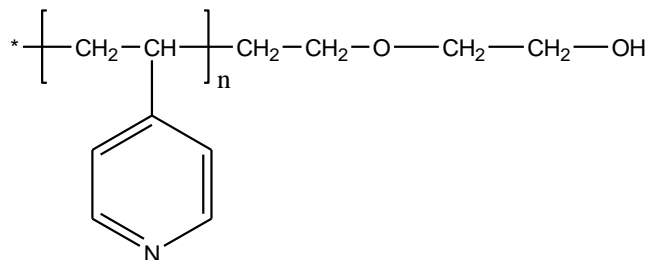


Sample Name:
Hydroxy Terminated Poly(4-Vinyl Pyridine)

Sample #: P9755-4VPOH

Structure:

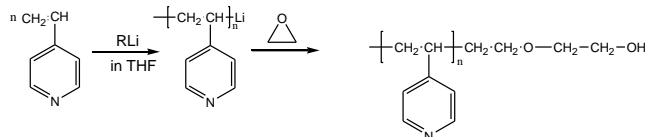


Composition:

$M_n \times 10^3$	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.

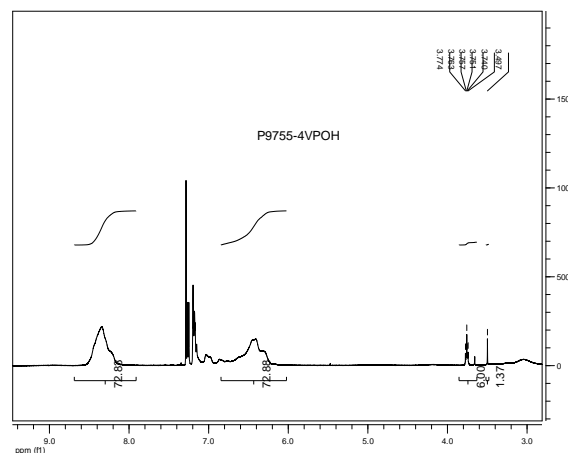
Thermal analysis:

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 CHCl_3 and THF.

HNMR of the Polymer:



SEC of sample:

