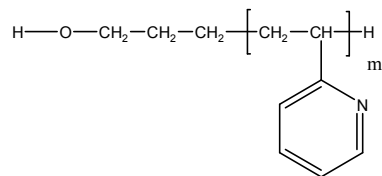


**Sample Name:**  
**Hydroxy Terminated Poly(2-Vinyl Pyridine)**

**Sample #: P5364-2VPOH**

**Structure:**

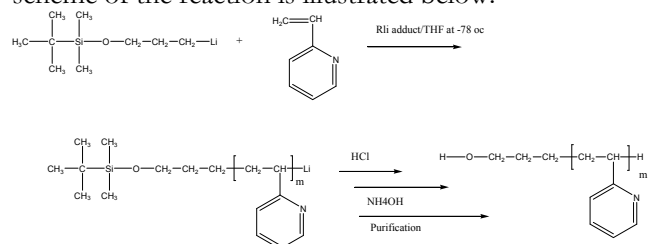


**Composition:**

| $M_n \times 10^3$                | PDI  |
|----------------------------------|------|
| 3.5                              | 1.15 |
| Functionality %                  | >99% |
| $T_g$ for the functional polymer | 66°C |

#### Synthesis Procedure:

Hydroxy terminated poly(2-vinyl pyridine) was prepared by living anionic polymerization of 2-vinyl pyridine in THF using OH protected initiator. 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:

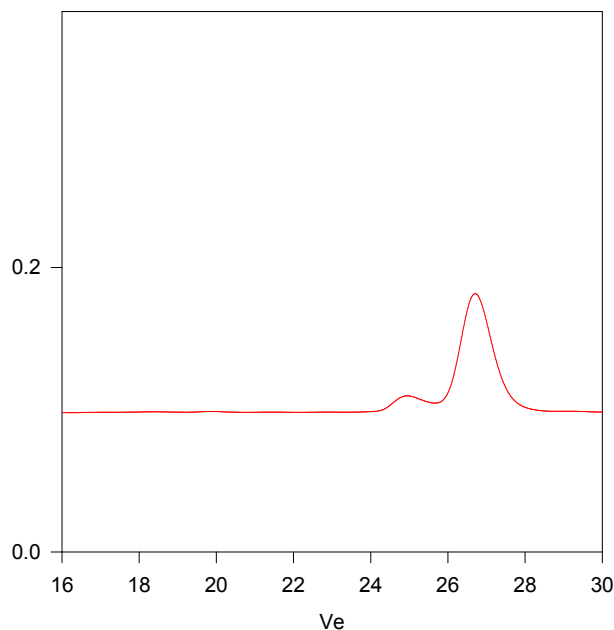
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature ( $T_g$ ) has been considered.

#### Solubility:

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

**SEC of Sample:**

**P5364- 2VPOH**



#### DSC thermogram for the sample:

