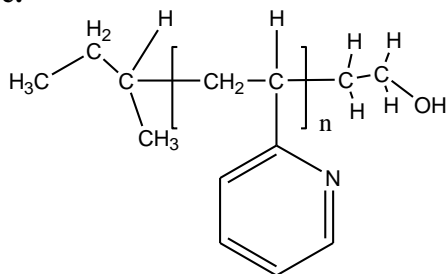


Sample Name:
 α -Hydroxy-Terminated Poly (2-Vinyl Pyridine)

Sample #: P41499-2VPOH

Structure:



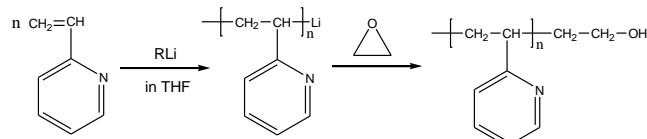
Composition:

$M_n \times 10^3$	Mw/Mn
3.5	1.03

-OH functionality:	99 %
T_g of P2VP-OH:	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.

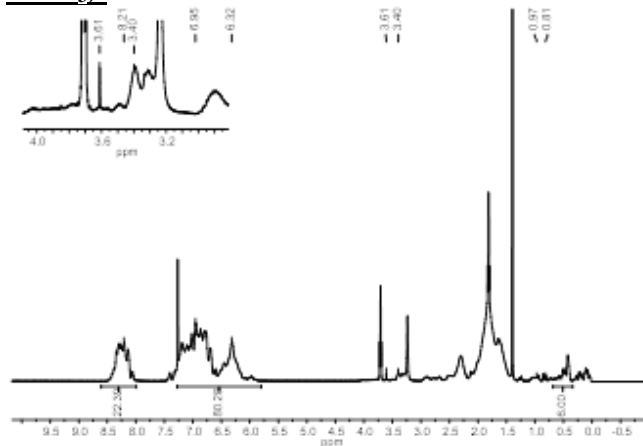
Thermal analysis:

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:

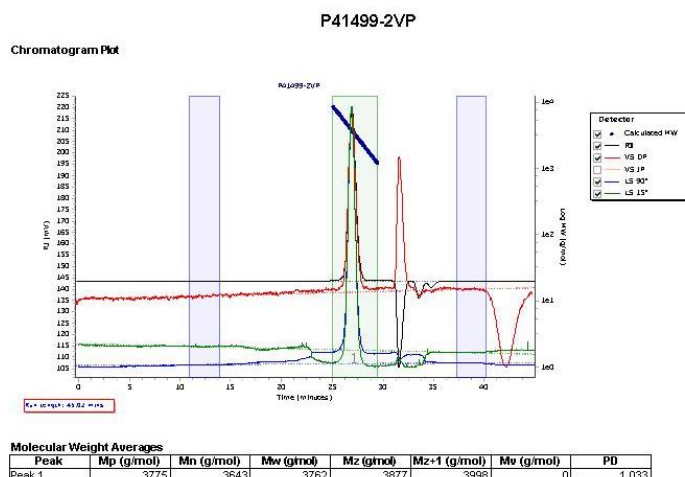
Polymer is soluble in $CHCl_3$ and THF.

1H NMR spectrum of the Sample (500 MHz, $CDCl_3$):



SEC elugram of the polymer:

Agilent GPC/SEC Software



DSC thermogram of the Sample:

