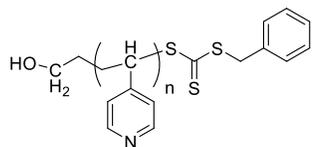


Sample Name:  
**Hydroxy Terminated Poly(4-Vinyl Pyridine)**  
*Bearing RAFT moiety*

Sample #: **P44126-4VPOH**

**Structure:**



**Composition:**

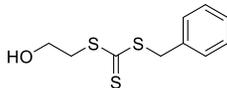
$M_n \times 10^3$	PDI
16.5	1.12
Functionality: 95%	
$T_g$ for the functional polymer	

**Synthesis Procedure:**

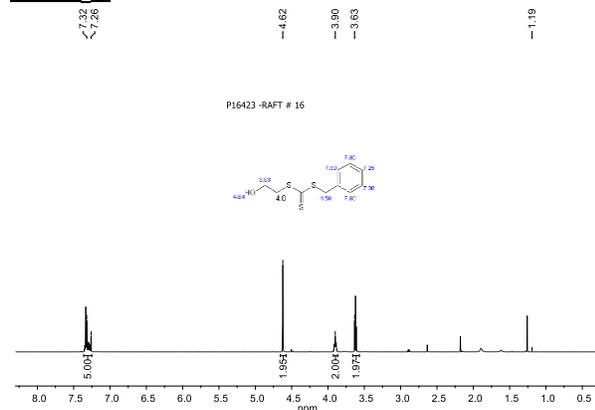
Hydroxy terminated poly(4-vinyl pyridine) was prepared by RAFT process using Following Reagent;

**Benzyl-2-hydroxyethyltrithiocarbonat**

**Structure:**



**$^1\text{H-NMR}$  spectrum of RAFT (400 MHz,  $\text{CDCl}_3$ ):**



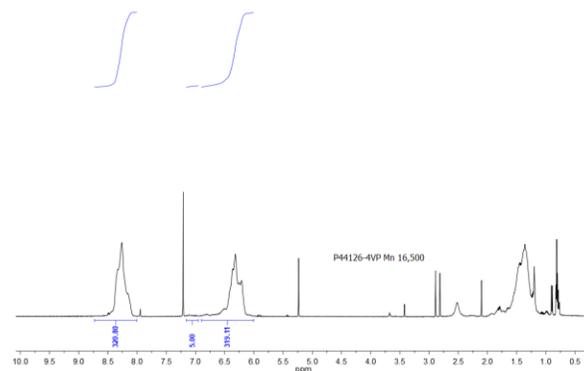
**Characterization:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Malvern liquid chromatograph equipped with a triple detectors.

**Solubility:**

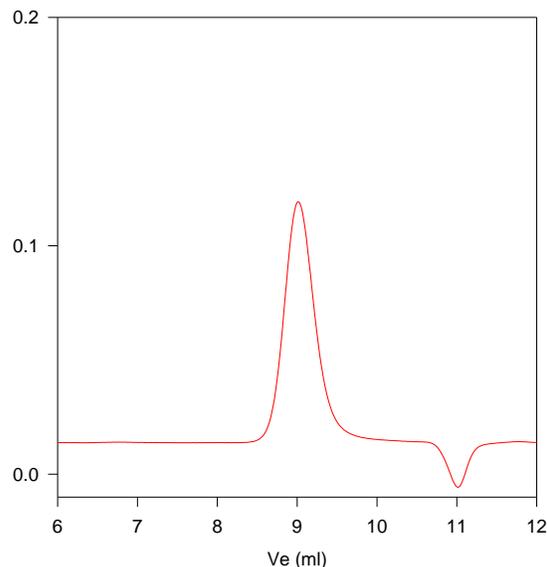
Polymer is soluble in  $\text{CHCl}_3$  and THF, methanol.

**$^1\text{H-NMR}$  spectrum of the Polymer:**



**SEC profile of the Sample:**

**P44126-4VP**



Size Exclusion Chromatography of Poly(4-vinylpyridine)-RAFT

$M_n=16.500$ ,  $M_w=18.500$ ,  $M_z=22100$ ,  $PI=1.12$