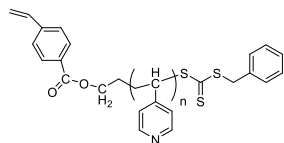


Sample Name:
Poly(4-vinyl pyridine), ω -vinyl-terminated

Sample #: P44109A-4VPVinyl

Structure:



Composition:

$M_n \times 10^3$	PDI
5.0	1.2
Functionality: 95%	

Synthesis Procedure:

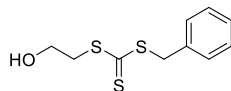
Hydroxy terminated poly(4-vinyl pyridine) was prepared by RAFT process using Following Reagent;

Synthesis Procedure:

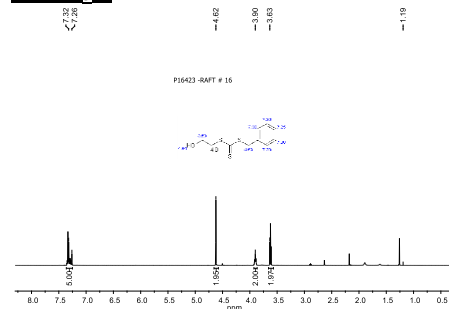
The polymer is prepared by RAFT polymerization of styrene and 4-vinylpyridine. Following RAFT reagent was used.

Benzyl-2-hydroxyethyltrithiocarbonat

Structure:



$^1\text{H-NMR}$ spectrum of RAFT (400 MHz, CDCl_3):



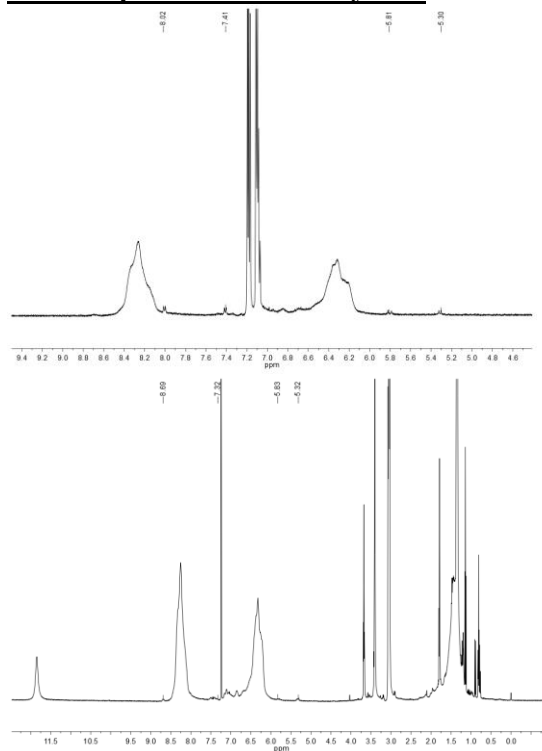
Characterization:

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.

Solubility:

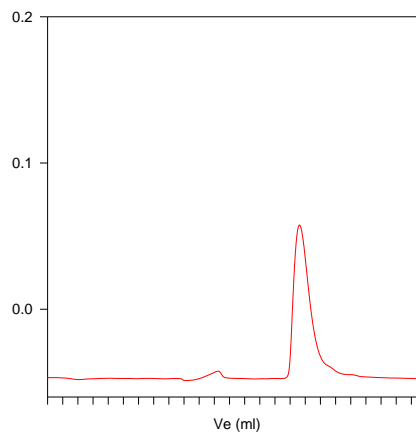
Polymer is soluble in CHCl_3 , THF, and methanol.

HNMR spectrum of the Polymer:



SEC profile of the Sample:

P44109-4VPvinyl



Size Exclusion Chromatography of Poly(4-vinylpyridine)
 $M_n=5,000$, $M_w=6,000$ PI=1.2