

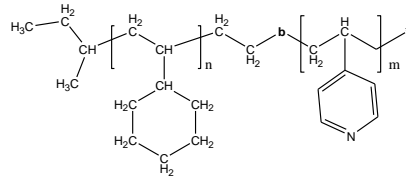
Sample Name:

**Poly Vinyl Cyclohexane-b-4Vinylpyridine**

*Synonym: Poly Cyclohexyl ethylene-b-4Vinylpyridine*

Sample #: **P40427C-VCH4VP**

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
5.5-b-23.0	1.25
$T_g$ (°C)	113 and 133

**Synthesis Procedure:**

The polymer was synthesized by combination of anionic polymerization and RAFT process.

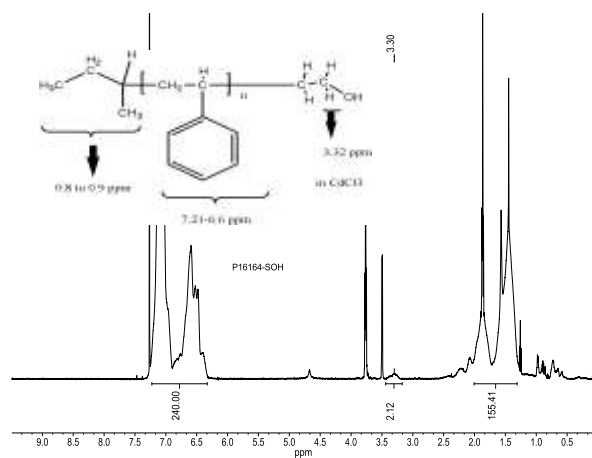
**Characterization:**

The product was characterized by  $^1\text{H}$  NMR.

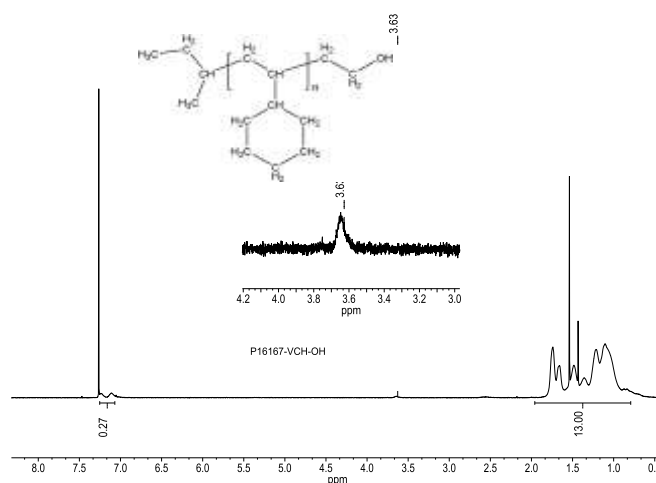
**Solubility:**

Polymer is soluble in toluene (not clear solution), THF,  $\text{CHCl}_3$  and is not soluble in Methanol, and DMF.

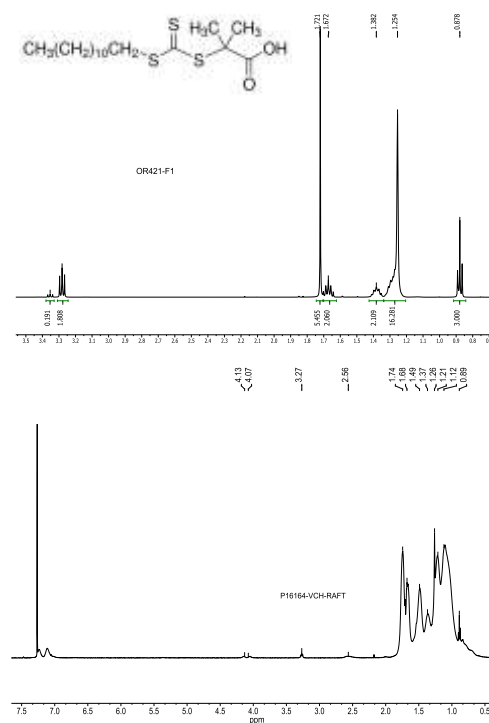
**$^1\text{H}$  NMR spectrum of the S-OH:**



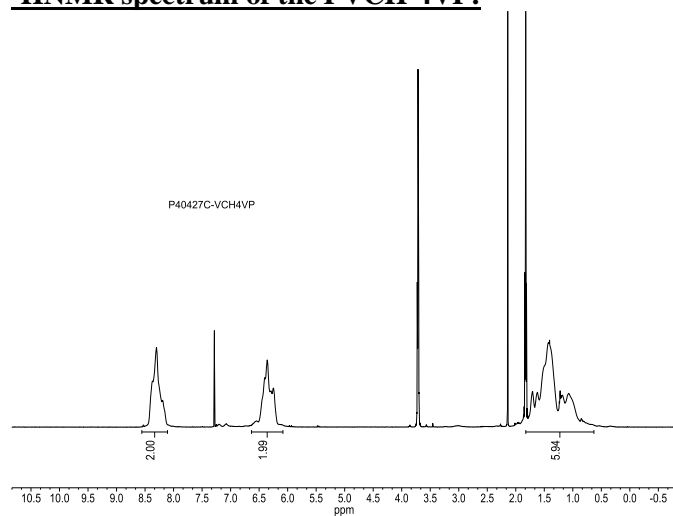
**$^1\text{H}$  NMR of Polymer PVCH-OH**



**$^1\text{H}$  NMR spectrum of the PVCH-RAFT**



### <sup>1</sup>H NMR spectrum of the PVCH-4VP:



### DSC thermogram for the sample:

