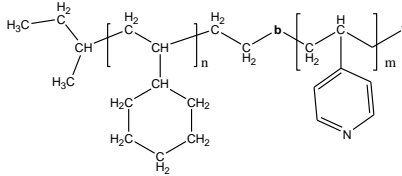


Poly Vinyl Cyclohexane-b-4Vinylpyridine

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

Sample #: **P40427-VCH4VP**

Structure:



Composition:

| | |
|----------------------|-------------|
| Mn x 10 ³ | PDI |
| 5.5-b-40.0 | 1.24 |
| T _g (°C) | 113 and 133 |

Synthesis Procedure:

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

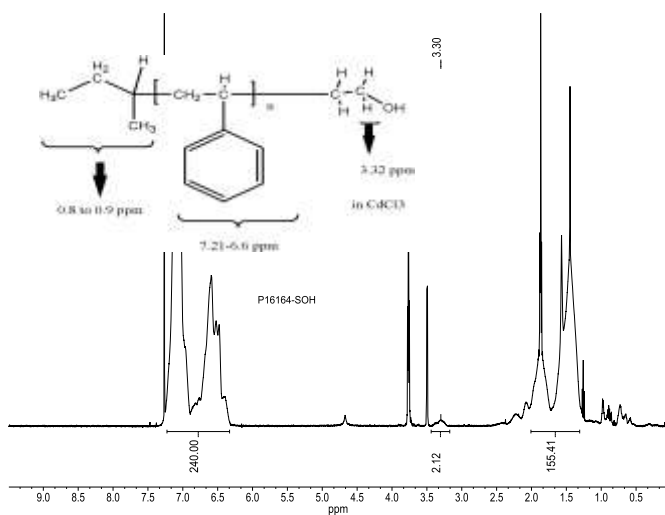
Characterization:

The product was characterized by ^1H NMR.

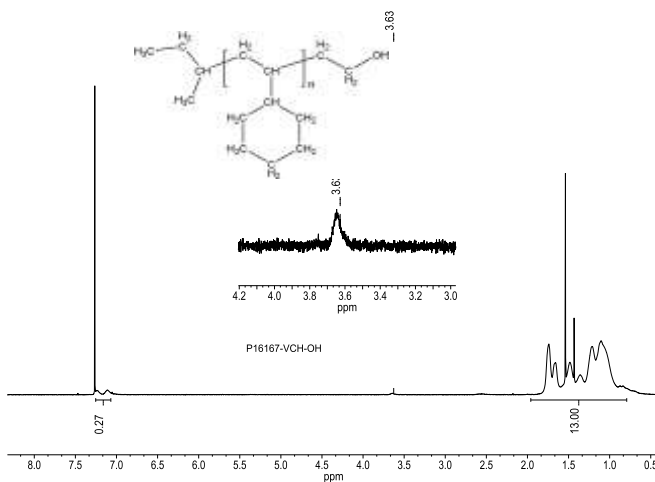
Solubility:

Polymer is soluble in toluene (not clear solution), THF, CHCl₃ and is not soluble in Methanol, and DMF.

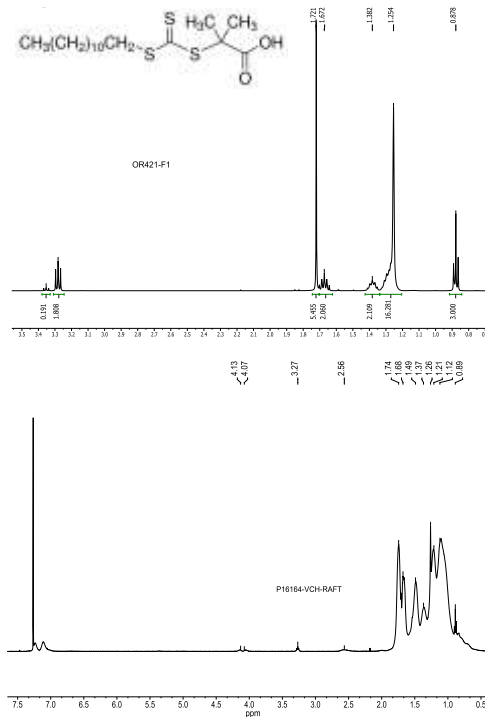
^1H NMR spectrum of the S-OH:



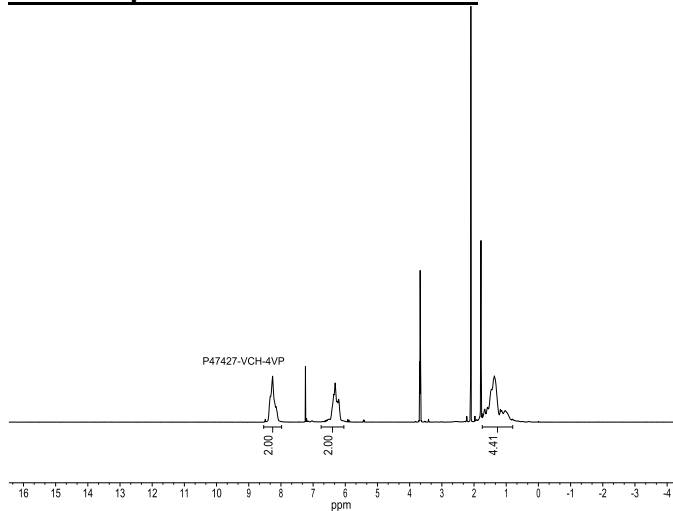
¹HNMR of Polymer PVCH-OH;



¹H NMR spectrum of the PVCH-RAFT



¹H NMR spectrum of the PVCH-4VP:



DSC thermogram for the sample:

