

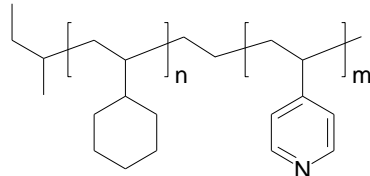
Sample Name:

Poly Vinyl Cyclohexane-b-4Vinylpyridine

Synonym: Poly Cyclohexyl ethylene-b-4Vinylpyridine

Sample #: **P16193-VCH4VP**

Structure:



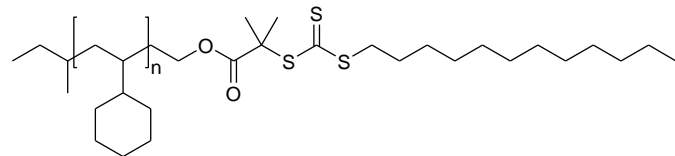
Composition:

$M_n \times 10^3$	PDI
12.5-b-60.5	1.28

Synthesis Procedure:

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

Structure of PVCH-RAFT:



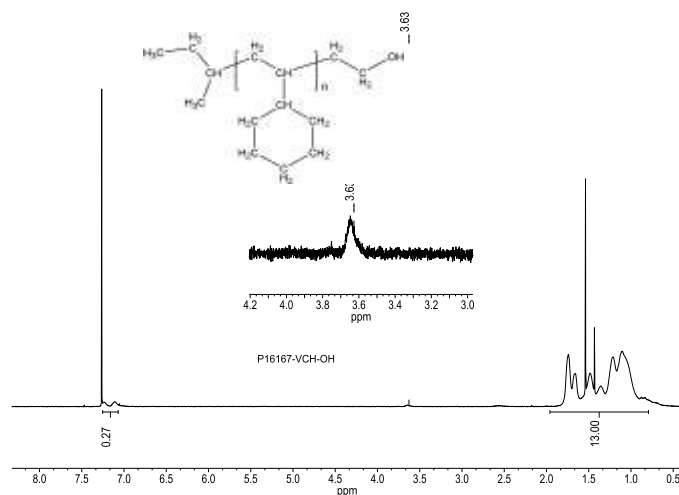
Characterization:

The product was characterized by ^1H NMR.

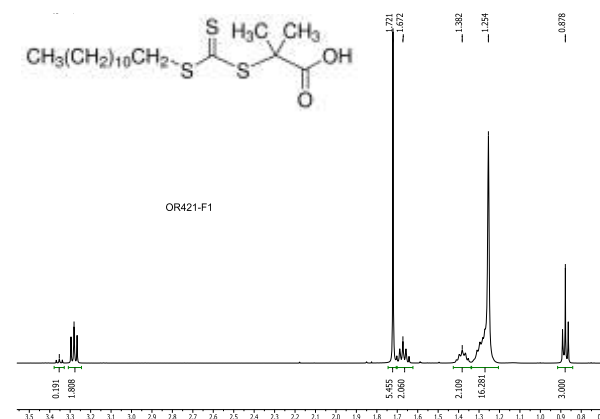
Solubility:

Polymer is soluble in toluene (not clear solution), CHCl_3 , THF and DMF depending on the ratio of PVCH and P4VP block.

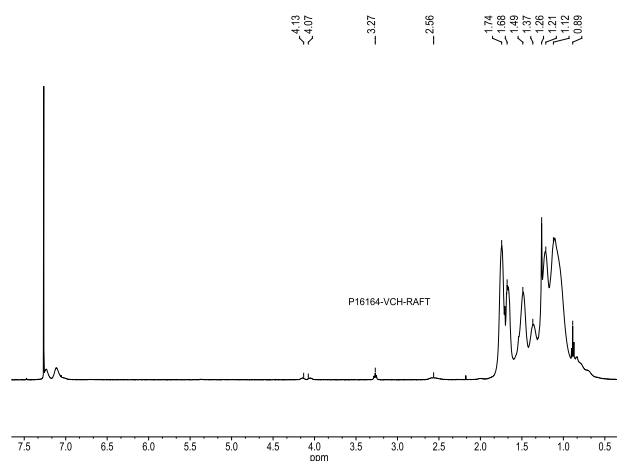
^1H NMR of Polymer PVCH-OH:



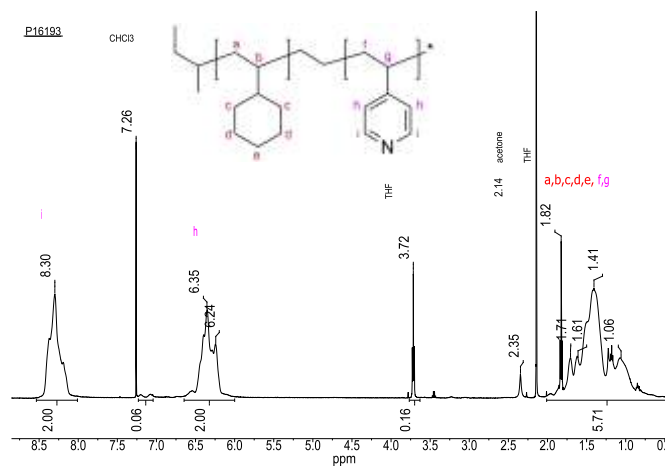
^1H NMR spectrum of the RAFT-CTA



^1H NMR spectrum of the PVCH-RAFT



^1H NMR spectrum of the PVCH-4VP:



Reference:

Synthesis and thermal properties of
poly(vinylcyclohexane)-*b*-poly(4-vinylpyridine) diblock
copolymers prepared via RAFT polymerization

**Yinghua Qi, Iryna I. Perepichka, Zhengji Song and
Sunil K. Varshney**

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