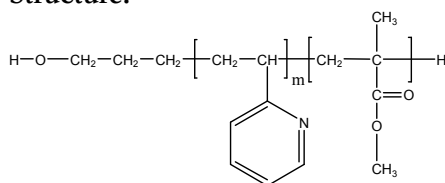


Sample Name: Hydroxy end functionalized Poly (2-vinyl pyridine-b-methyl methacrylate)
Sample #: P19254-OH2VPMMA

Structure:



Composition:

Mn x 10 ³ 2VP-b-MMA	Mw/Mn (PDI)
17.5-b-32.0	1.13

Synthesis Procedure:

OH end functionalized (at terminal of P2VP block Poly (2-vinyl pyridine-b-methyl methacrylate) is synthesized by living anionic polymerization using OH protected initiator.

Characterization: By GPC and HNMR

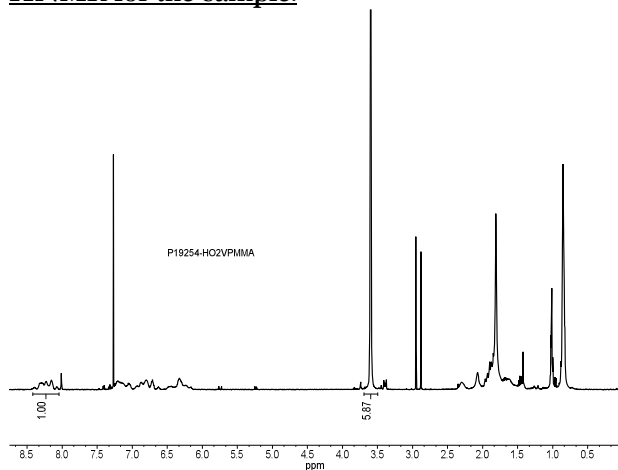
Thermal analysis results at a glance

Sample	T _g (°C)
2VP (M _n =30k)	81
MMA (M _n =237k)	123
2VP block in sample	93
MMA block in sample	126

Solubility:

OH terminated Poly (2-vinyl pyridine-b-methyl methacrylate) is soluble in THF, CHCl₃ and also in methanol (depending on its compositions).

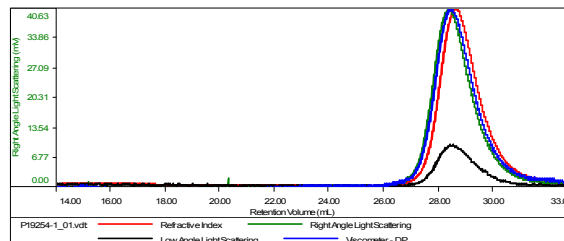
HNMR for the sample:



SEC for the sample:

Sample ID:P19254-1

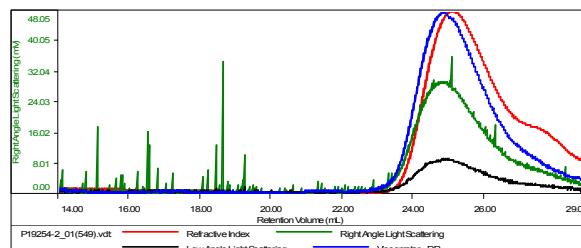
Concentration (mg/mL)	2.2052
Sample ch/dc (mL/g)	0.1670
Method File	PS80K-April-29-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polycdispersi	Intrinsic Viscosity (dL/g)
P19254-1_01.vdt	17,269	18,440	17,685	1.068	0.3592

Sample ID:P19254-HO2VPMMA

Concentration (mg/mL)	1.2527
Sample ch/dc (mL/g)	0.1300
Method File	PS80K-April-29-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polycdispersi	Intrinsic Viscosity (dL/g)
P19254-2_01(549).vdt	49,826	56,088	58,198	1.126	0.9393

DSC thermogram for MMA block:

