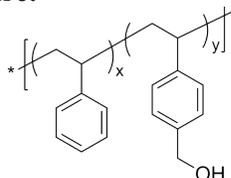


**Sample Name:**

**Poly(styrene-co-4-hydroxymethyl styrene), random**

**Sample #: P60626B-S4OHMeSran**

**Structure:**



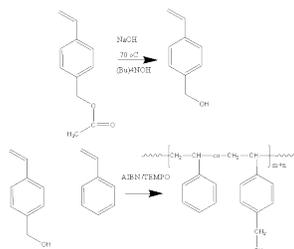
**Composition:**

Mn x 10 <sup>3</sup>	Mw/Mn (Total)
39.0	1.4

# Of Branches of benzyl alcohol: 128

**Synthesis Procedure:**

The following reaction scheme shows how the 4-Vinyl Phenyl methanol Monomer was synthesized:



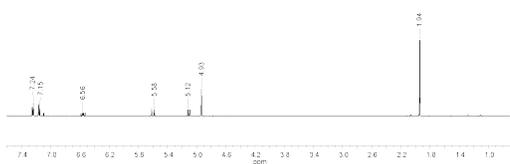
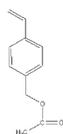
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR data analysis.

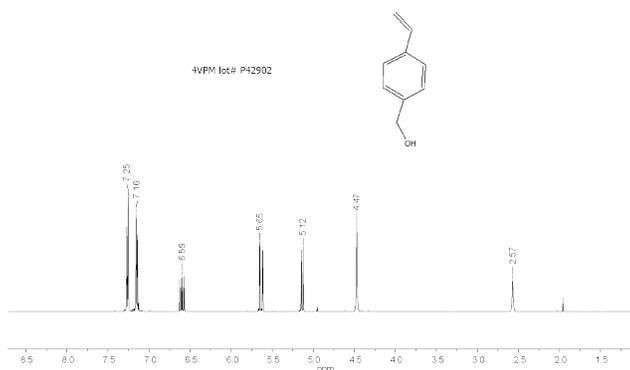
**Solubility:**

The polymer is soluble in THF, and DMF.

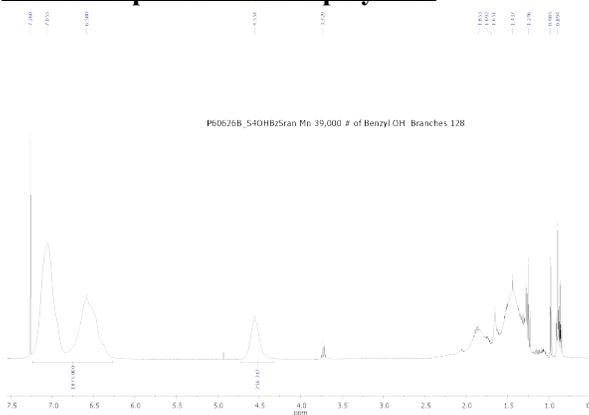
**<sup>1</sup>H NMR spectrum of 4-vinyl Benzyl acetate:**



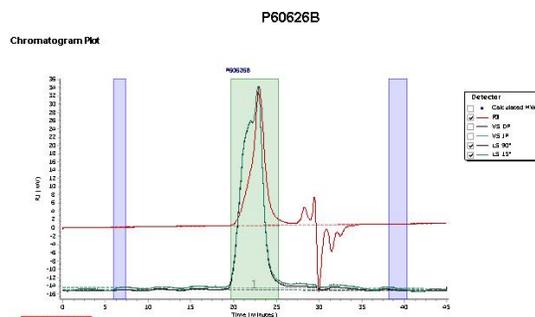
**<sup>1</sup>H-NMR spectrum of 4-Vinyl Phenyl methanol:**



**<sup>1</sup>H-NMR spectrum of the polymer:**



**SEC elugram of Polymer:**



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mz (g/mol)	PD
Peak 1	40778	38995	54991	81470	118756	76105	1.421