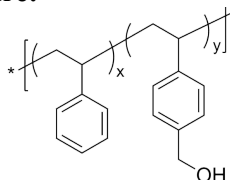


**Sample Name:**

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

**Sample #:** P60626C-S4OHMeSran

**Structure:**



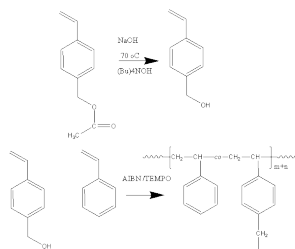
**Composition:**

Mn x 10 <sup>3</sup>	Mw/Mn (Total)
78.5	2.0

# Of Branches of benzyl alcohol: 296

**Synthesis Procedure:**

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



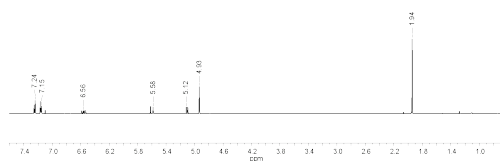
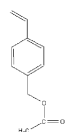
**Characterization:**

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

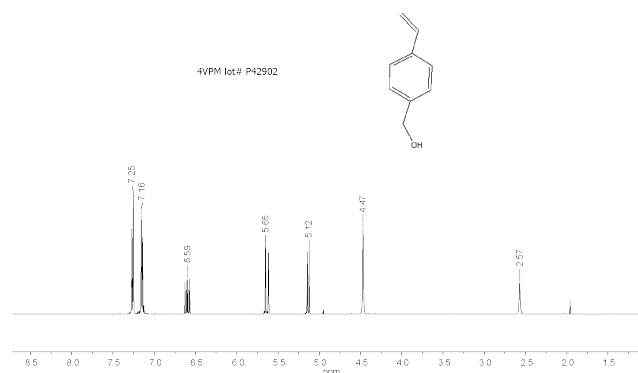
**Solubility:**

The polymer is soluble in THF, and DMF.

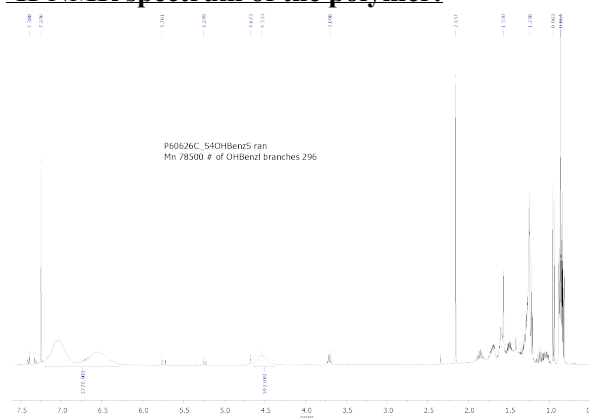
**<sup>1</sup>H NMR spectrum of 4-vinyl Benzyl acetate:**



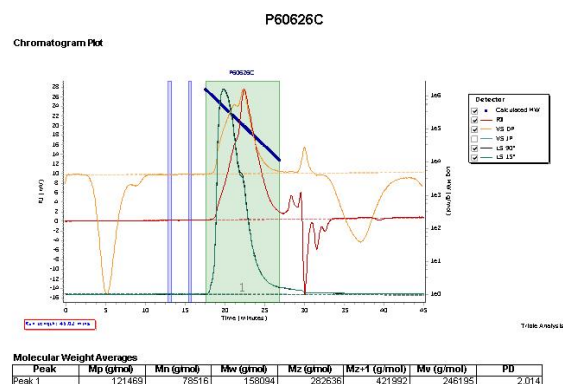
**<sup>1</sup>H-NMR spectrum of 4-Vinyl Phenyl methanol**



**<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
1	121468	78516	158094	282636	421992	246195	2.014