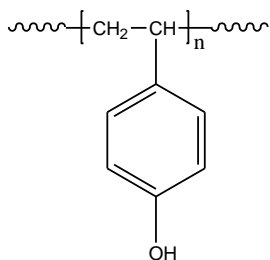


**Sample Name:** Poly(4-hydroxystyrene)

**Sample #:** P4404-4HOS

**Structure:**

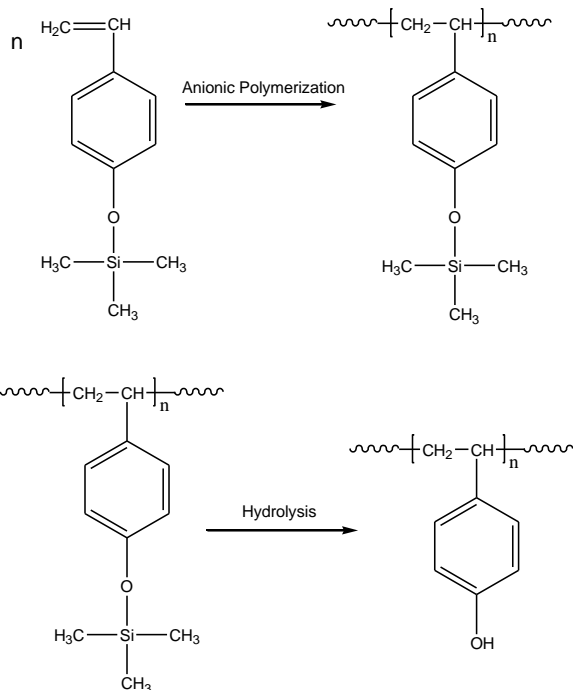


**Composition:**

Mn x 10 <sup>3</sup>	PDI
6.5	1.15

**Synthesis Procedure:**

Poly(4-hydroxystyrene) was synthesized by living anionic polymerization of 4-trimethylsilyl-styrene followed by hydrolysis of the polymer. The reaction scheme is shown below:



**Solubility:**

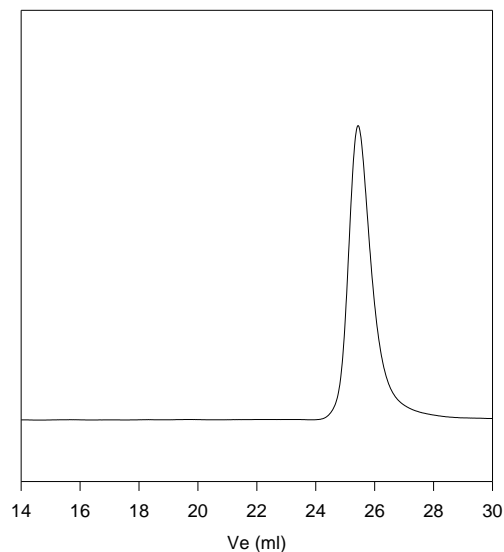
Poly(4-hydroxystyrene) is soluble in acetone, DMF, DMSO, and THF. The polymer is not soluble in chloroform and toluene.

**Characterization:**

The molecular weight and polydispersity index (PDI) were obtained by size exclusion chromatography.

**SEC of Homopolymer:**

**P4404-4HOS**



Size exclusion chromatography of poly(4-hydroxy styrene):  
Before deprotecting HO -group  
M<sub>n</sub>=6500, M<sub>w</sub>=7500, PI=1.15