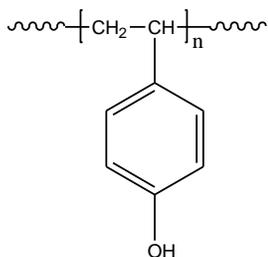


Sample Name: Poly(4-hydroxystyrene)

Sample #: P4404-4HOS

Structure:

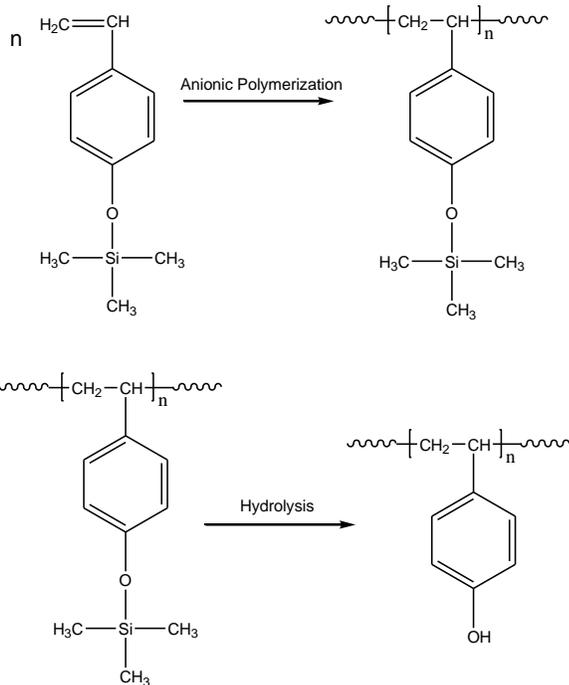


Composition:

$M_n \times 10^3$	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:

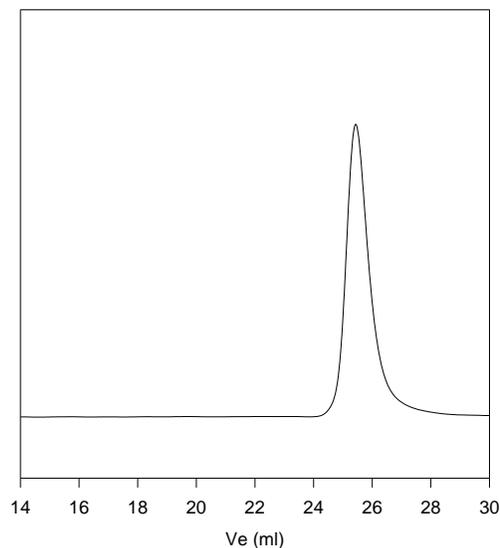
Poly(4-hydroxystyrene) is soluble in acetone, DMF, DMSO, and THF. The polymer is not soluble in chloroform and toluene.

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
 $M_n=6500$, $M_w=7500$, $PI=1.15$