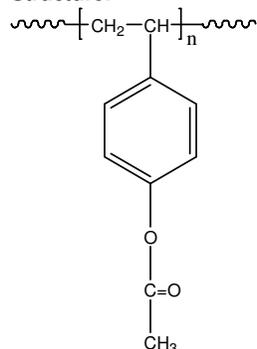


## Sample Name: Poly(4-Acetoxy styrene)

Sample #: P5510-4AcS

### Structure:

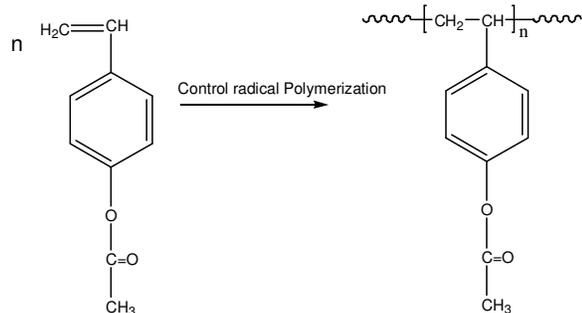


### Composition:

$M_n \times 10^3$	PDI
10.5	1.6

### Synthesis Procedure:

Poly(4-acetoxy styrene) is synthesized by control radical polymerization. The reaction scheme is shown below.



### Characterization:

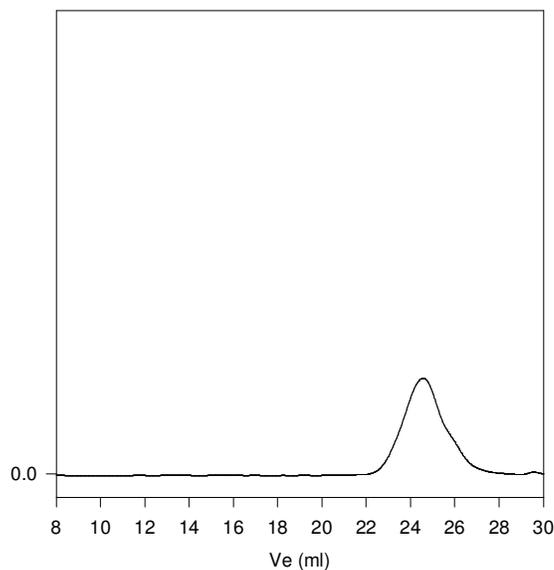
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

### Solubility:

Polymer is soluble in DMF, THF, toluene and  $CHCl_3$ . It precipitates from methanol, ethanol, water and hexanes.

### SEC of Homopolymer:

**P5510-4AcS**



Size Exclusion Chromatogram of poly 4-acetoxy styrene:  
—  $M_n=10,500$ ,  $M_w=16,800$ ,  $M_w/M_n=1.6$