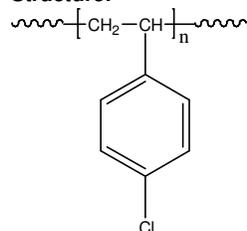


## Sample Name: Poly(4-chloro styrene)

Sample #: p1354-4CIS

### Structure:

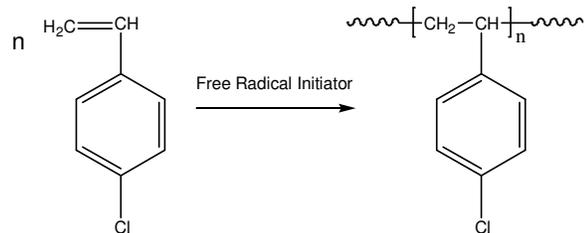


### Composition:

$M_n \times 10^3$	PDI
26.6	1.22

### Synthesis Procedure:

Poly(4-chloro styrene) is synthesized by free radical polymerization of 4-chloro styrene and the reaction scheme is shown below.



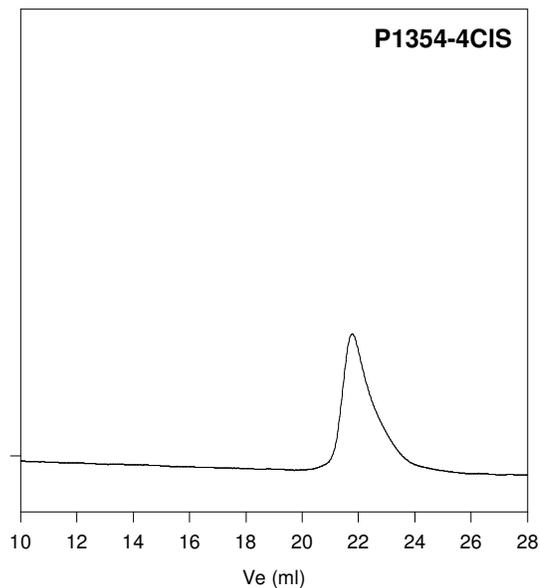
### Characterization:

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

### Solubility:

Poly(4-chloro styrene) is soluble in DMF, THF, toluene and  $CHCl_3$ . It precipitates from methanol, ethanol, water and hexanes.

### SEC of Homopolymer:



Size Exclusion Chromatogram of Poly(4-Chlorostyrene)

$M_n=26600$ ,  $M_w=32500$ ,  $M_w/M_n=1.22$