

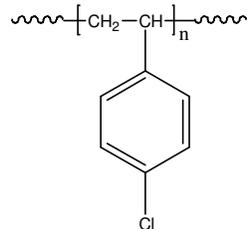
Sample Name: Poly(4-chloro styrene)

SEC of Homopolymer:

P5514-4CIS

Sample #: P5514-4CIS

Structure:

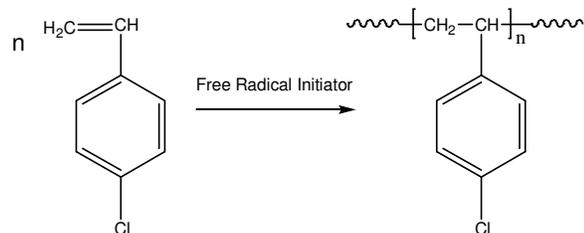


Composition:

$M_n \times 10^3$	PDI
44.5	1.6

Synthesis Procedure:

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

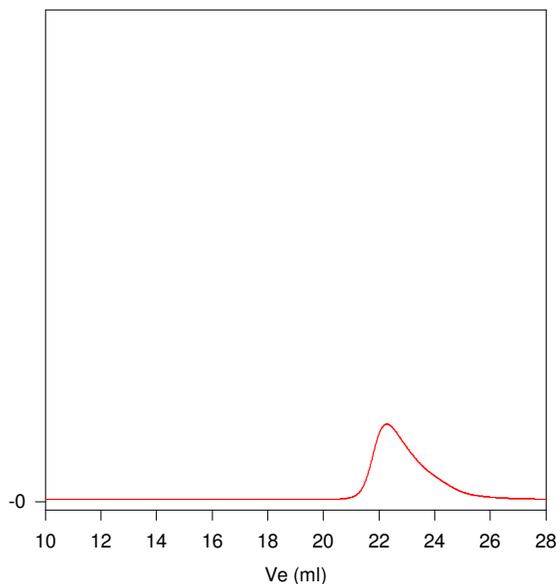


Characterization:

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.



Size Exclusion Chromatograph of Poly(4-Chlorostyrene)

$M_n=44,500$, $M_w=71,000$, $M_w/M_n=1.6$