

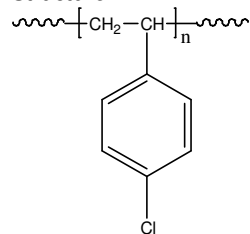
Sample Name: Poly(4-chloro styrene)

SEC of Homopolymer:

**P5514-4CIS**

Sample #: P5514-4CIS

**Structure:**

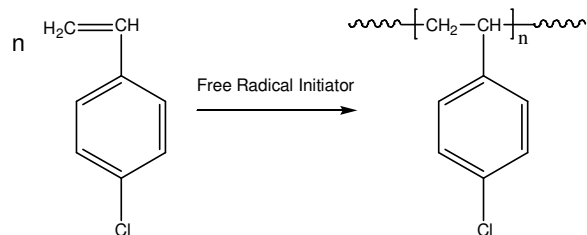


**Composition:**

$M_n \times 10^3$	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.

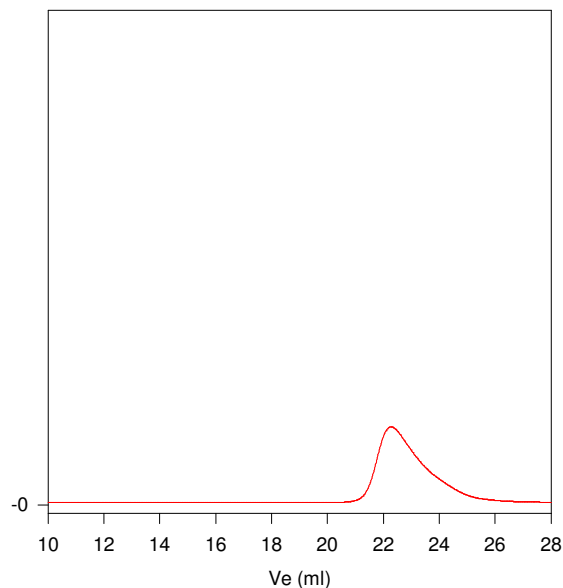


**Characterization:**

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)

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