

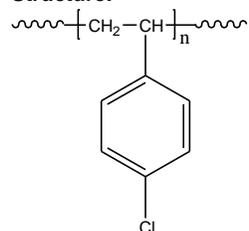
**Sample Name:** Poly(4-chloro styrene)

**SEC of Homopolymer:**

**P8216-4CIS**

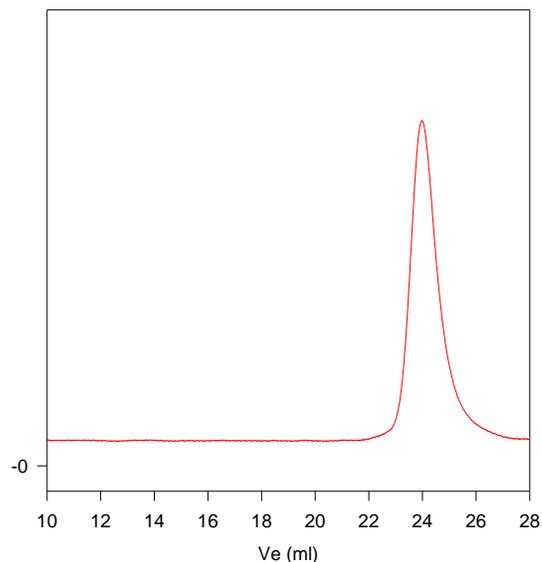
**Sample #:** P8216-4CIS

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
17.5	1.25

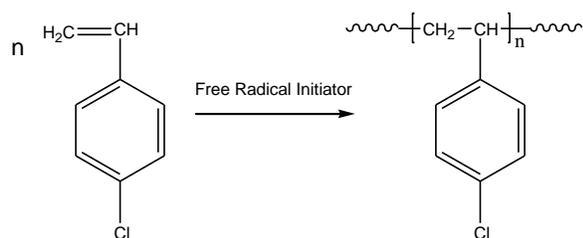


Size Exclusion Chromatograph of Poly(4-Chlorostyrene)

$M_n=17500$ ,  $M_w=21800$ ,  $M_w/M_n=1.25$

**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.