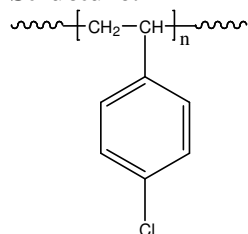


**Sample Name:** Poly(4-chloro styrene)

**Sample #:** P19639B-4CIS

**Structure:**

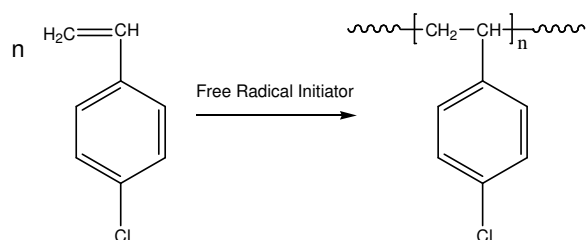


**Composition:**

$\text{Mn} \times 10^3$	PDI
73.0	1.55

**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 (SEC).

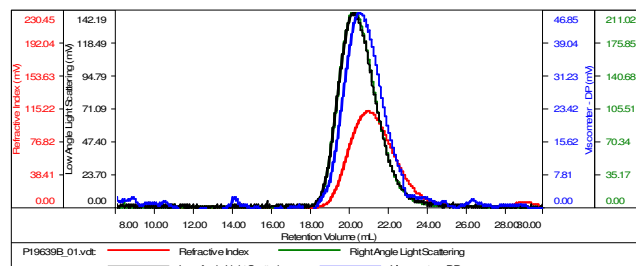
**Solubility:**

Poly(4-chloro styrene) is soluble in DMF, THF, toluene and  $\text{CHCl}_3$ . It precipitates from methanol, ethanol, water and hexanes.

**SEC elugram of Homopolymer:**

**Sample ID-P19639B-4CIS**

Concentration (mg/mL)	1.5995
Sample dn/dc (mL/g)	0.1850
Method File	PS00K-June30-2015-0000.vom
Column Set	3x PL 1113-6000
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19639B_01.vcl	72,905	112,848	108,985	1.548	2.0340