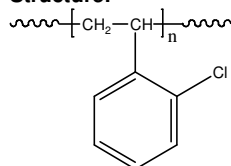


Sample Name: Poly(2-chloro styrene)

Sample #: P4934-2CIS

Structure:

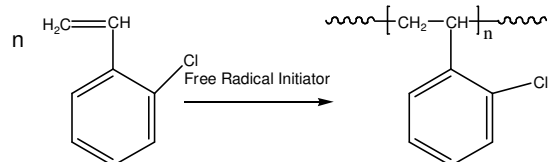


Composition:

$M_n \times 10^3$	PDI
24.0	1.2

Synthesis Procedure:

Poly(2-chloro styrene) is synthesized by controlled radical polymerization of 2-chloro styrene and the reaction scheme is shown below.



Characterization:

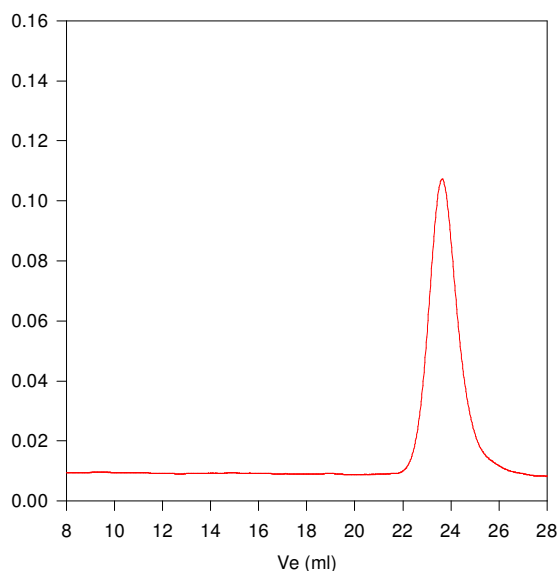
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

Solubility:

Poly(2-chloro styrene) is soluble in DMF, THF, toluene and CHCl_3 . It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer:

P4934-2CIS



Size exclusion chromatograph of poly 2-chlorostyrene:
 $M_n=24000$, $M_w=29000$, $PI=1.2$