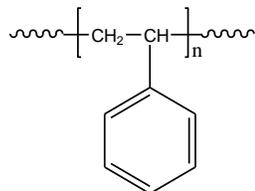


Sample Name: **Polystyrene**

Sample #: **P5629-S**

Structure:



Composition:

$M_n \times 10^3$	PDI
900.00	1.14

Synthesis Procedure:

Polystyrene is obtained by living anionic polymerization using Sec. Butyllithium initiator.

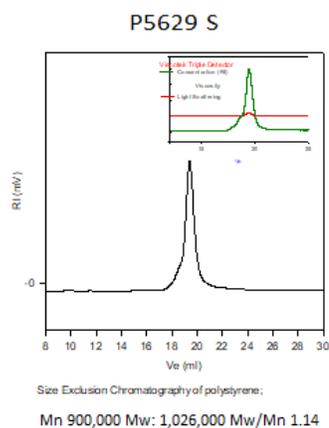
Characterization:

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:

Polystyrene is soluble in DMF, THF, toluene and CHCl_3 . It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer



T_g of polystyrene as function of molecular weight

