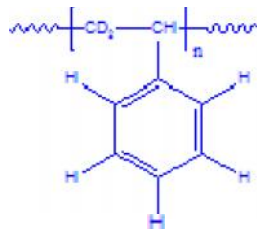


Sample Name: Deuterated Polystyrene (d₂)

Sample #: P2896-d2PS

Structure:



Composition:

Mn x 10 ³	PDI
53.0	1.04

Synthesis Procedure:

Deuterated polystyrene-d₂ is obtained by living anionic polymerization of styrene-d₂.

Characterization:

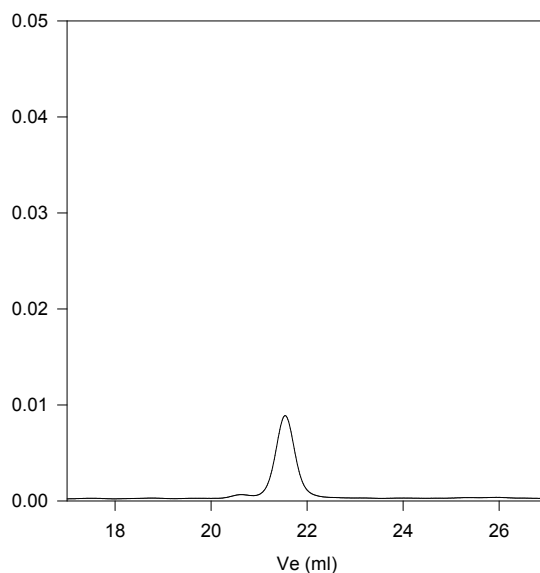
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors from Viscotek Co. Three SEC columns from Supelco (G6000-4000-2000 HXL)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

Solubility:

Deuterated polystyrene-d₃ is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes.

SEC profile of the product:

P2896-d2PS



Size exclusion chromatograph of deuterated polystyrene-d₂
M_n=53000, M_w=55100, PI=1.04