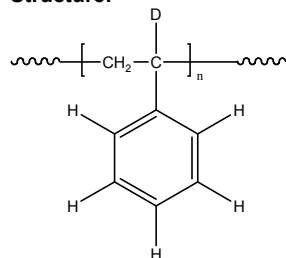


Sample Name: Deuterated Polystyrene (d1)

Sample #: P14078-d1PS

Structure:



Composition:

Mn x 10 ³	PDI
15.0	1.26

Synthesis Procedure:

Deuterated polystyrene-d1 is obtained by living polymerization of styrene-d1.

Characterization:

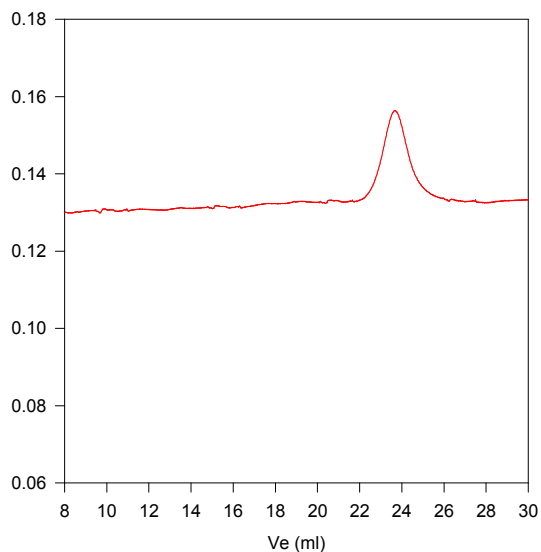
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors from Viscotek Co. Three SEC columns from Supelco (G6000-4000-2000 HXL)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

P14078-d₁PS



Size exclusion chromatograph of deuterated polystyrene(d1):

M_n=15,000 M_w=19000, PI=1.26