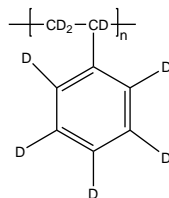


Sample Name: Deuterated Polystyrene (d₈)

Sample #: P44424B-dPS

Structure:



Composition:

Mn x 10 ³	PDI
58.0	2.1

Synthesis Procedure:

Deuterated polystyrene-d₈ is obtained by free radical polymerization process.

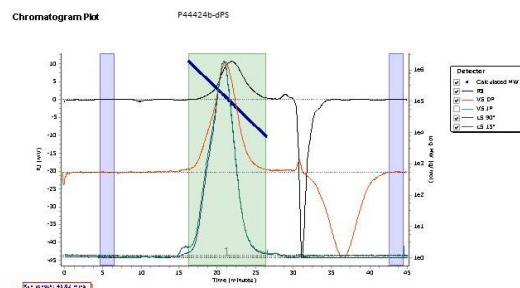
Characterization:

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-d₈ is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water, and hexanes.

SEC elugram of Homopolymer:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mo (g/mol)	PDI
Peak 1	87701	58156	122793	257074	482135	232491	2.111