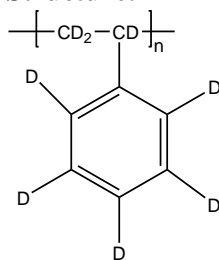


Sample Name: **Deuterated Polystyrene (d₈)**

Sample #: **P41439-dPS**

Structure:

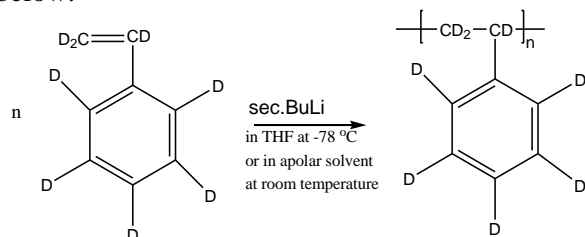


Composition:

Mn x 10 ³	PDI
69.0	4.8

Synthesis Procedure:

Deuterated polystyrene- d_8 is obtained by living anionic polymerization of styrene- d_8 as illustrated 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 from Viscotek Co. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used.

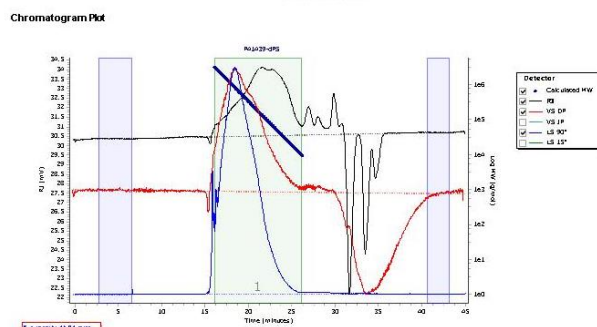
Solubility:

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

SEC elugram of Homopolymer:

Agilent GPC/SEC Software

P41439-dPS



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	143371	69210	334804	1140421	1845546	960968	4.83

Processing Parameters

Last modified by: Dakshin Sanyal at 11:15:19 AM on October 21, 19