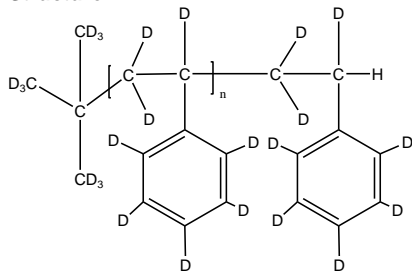


**Sample Name: Deuterated Polystyrene (d₈)
Initiated by d₉ tert.butyl lithium
Sample #: P18521-dPS**

Structure:



Composition:

Mn x 10 ³	PDI
11.0	1.10

Synthesis Procedure: Deuterated polystyrene-d₈ is obtained by living anionic polymerization of styrene-d₈ using d₉ tert.butyl lithium initiator

Characterization:

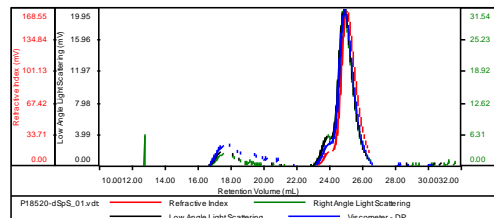
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors from Viscotek Co. Three SEC columns from Supelco (G6000-4000-2000 HXL)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

Solubility:

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

Sample ID: P18521-dPs -Initiated by d₉ tBuLi

Concentration (mg/mL)	2.4117
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Feb25-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18520-dSpS_01.vdt	10,846	11,821	12,120	1.090	0.2354

SEC of Homopolymer: