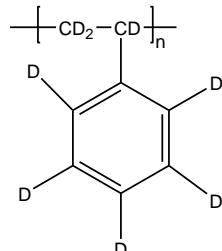
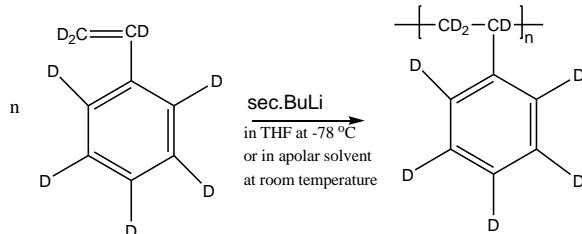


Sample Name: Deuterated Polystyrene-d₈**Sample #:** P18456-dPS**Structure:****Composition:**

Mn x 10 ³	16.5
Mw x 10 ³	17.0
PDI	1.04

Synthesis Procedure:

Deuterated polystyrene-d₈ is obtained by anionic living polymerization of styrene-d₈ 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 light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

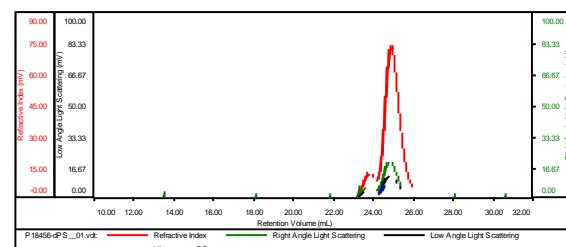
Solubility:

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

SEC of deuterated polystyrene:

Sample ID: P18456-dPS

Concentration (mg/mL)	1.0120
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Feb10-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18456-dPS_01.vdt	16,571	17,165	16,805	1.036	0.2617

