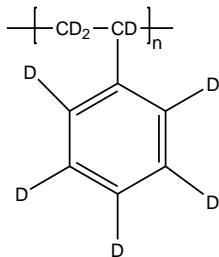


Sample Name: Deuterated Polystyrene (d₈)

Sample #: P42651-dPS

Structure:



Composition:

$M_n \times 10^3$	PDI
115.0	1.45

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:

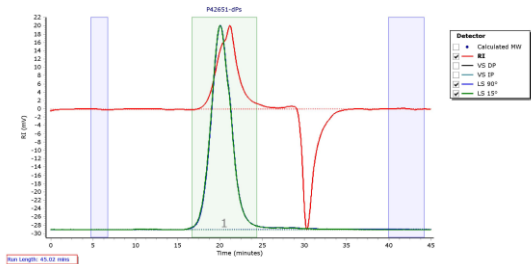
Deuterated polystyrene-d₈ is soluble in DMF, THF, toluene and $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.

SEC elugram of Homopolymer:

Agilent GPC/SEC Software

P42651-dPs

Chromatogram Plot



Peak	M_p (g/mol)	M_n (g/mol)	M_w (g/mol)	M_z (g/mol)	M_z+1 (g/mol)	M_v (g/mol)	PD
Peak 1	125400	115001	166380	230040	304256	216867	1.447