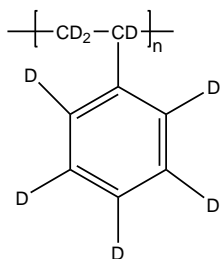


Sample Name: Deuterated Polystyrene (d₈)

Sample #: P44212A-dPS

Structure:



Composition:

Mn x 10 ³	PDI
2,020.0	1.27

D atom :+98

Synthesis Procedure:

Deuterated polystyrene-d₈ is obtained by living anionic polymerization of styrene-d₈. D8Styrene bears D atom % over 98.

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:

