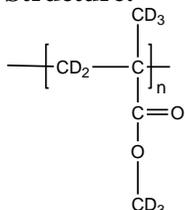


Sample Name: Poly (methyl methacrylate)-d₈
Atactic rich

Sample #: P42171A-dPMMA

Structure:



Composition:

Mn x 10 ³	PDI
66.5	2.2

Tg	109 °C
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Synthesis Procedure:

Deuterated poly (methyl methacrylate)-d₈ is obtained by conventional free radical polymerization process.

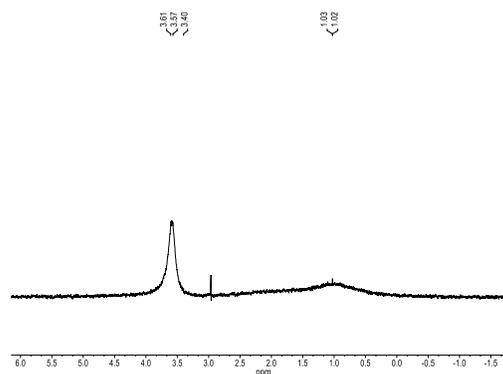
Characterization:

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. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co. ¹H NMR analysis was carried out on Varian instrument at 500MHz.

Solubility:

Deuterated poly (methyl methacrylate)-d₈ is soluble in THF, CHCl₃, toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

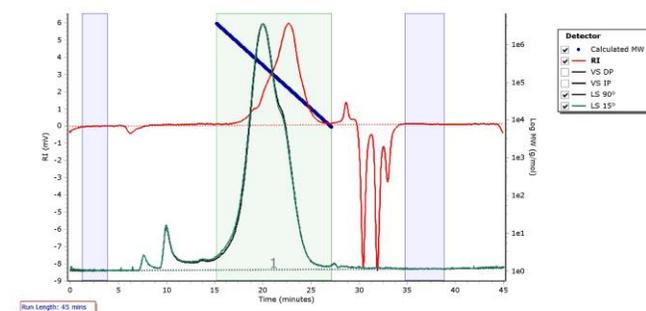
D NMR spectrum of the polymer:



SEC elugram of Homopolymer:

Agilent GPC/SEC Software

Chromatogram Plot P42171A-D8MMA



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	68743	66558	149063	542408	1608900	393700	2.24

DSC thermogram of the Sample:

Size: 6.0000 mg

DSC

