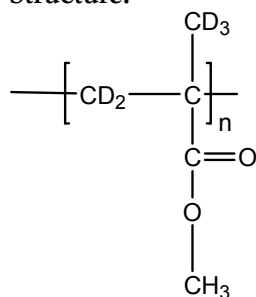


Sample Name: Deuterated Poly (methyl methacrylate)-d₅
Sample #: P19276A-d5PMMA

Structure:



Composition:

Mn x 10 ³	PDI
992.0	1.26

Synthesis Procedure:

Deuterated poly (methyl methacrylate)-d₅ is obtained by controlled radical process.

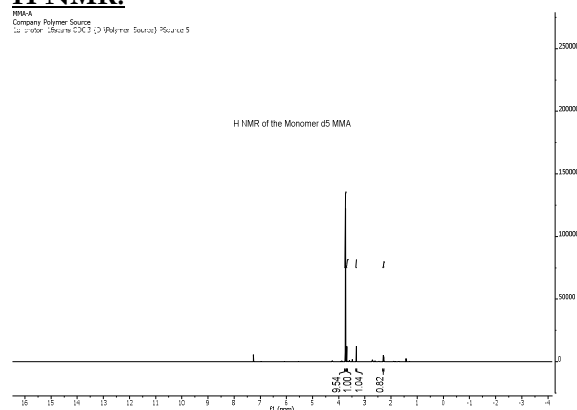
Characterization:

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)-d₅ is soluble in THF, CHCl₃, toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

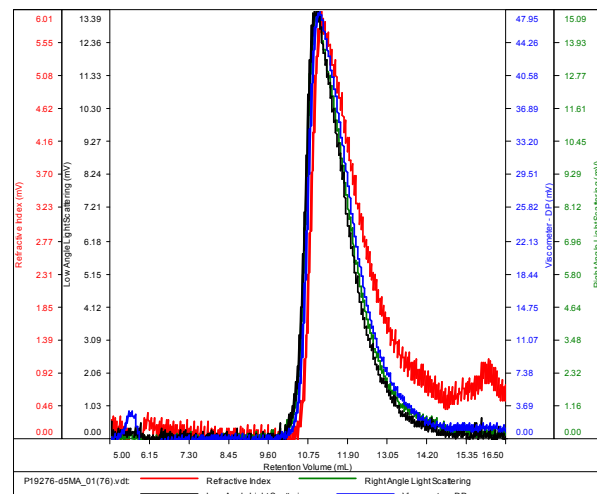
H NMR:



SEC of Homopolymer:

SAMPLE ID: P19276-d5MMA

Conc (mg/mL)	0.5220
dn/dc (mL/g)	0.0650
Method	ps80k-May2015-0000.vcm
Solvent	DMF w 0.03M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P19276-d5MA_01(76).vdt	991,985	1.252 e 6	1.408 e 6	1.263	1.5541