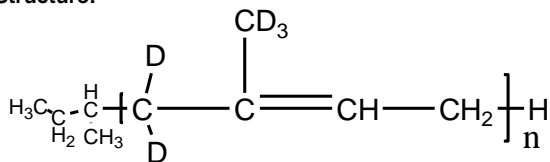


Sample Name:

Deuterated Polyisoprene-d5 (1,4-addition)

Sample #: P19000-d5PIP

Structure:



Composition:

Mn x 10 ³	PDI
0.6	1.05

Synthesis Procedure:

Polyisoprene is obtained by anionic polymerization deuterated (d5) isoprene.

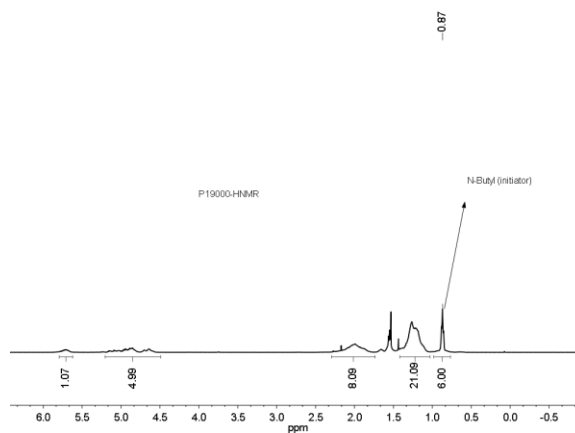
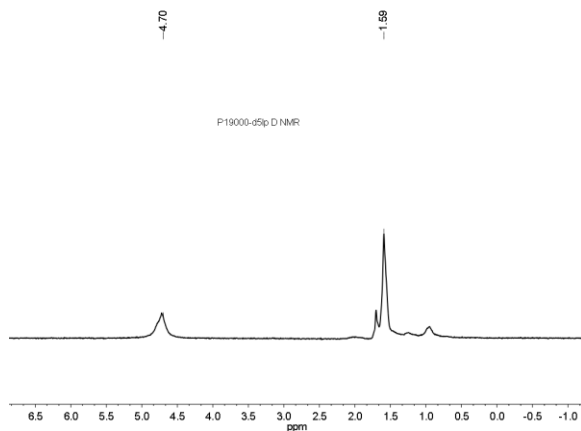
Characterization:

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.

Solubility:

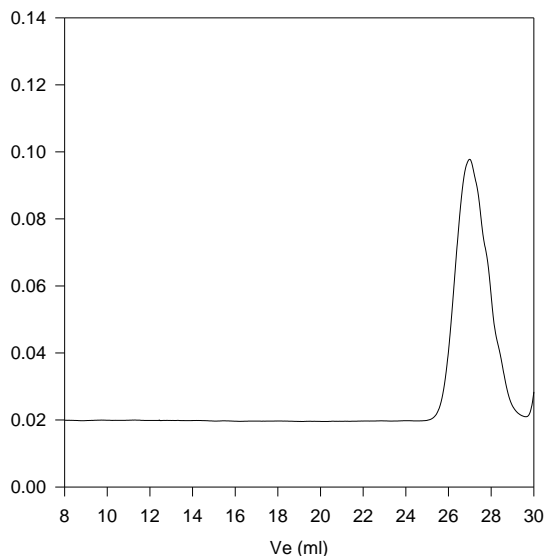
Polymer is soluble in THF, toluene, hexane and chloroform. This polymer precipitates from methanol.

H NMR:



SEC of Sample:

P19000-d5IP



Size exclusion chromatograph of deuterated poly isoprene (d5)

M_n=600 Mw/Mn =1.05