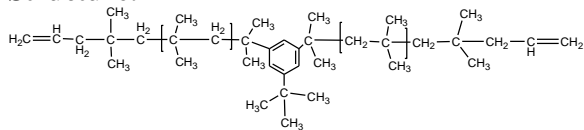


Sample Name:

α,ω -Di Allyl end terminated Polyisobutylene

Sample #: **P41125-IB2Allyl**

Structure:

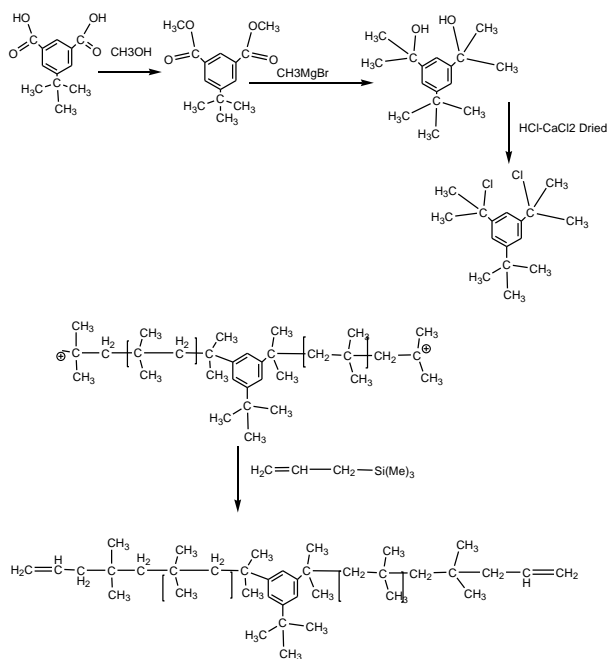


Composition:

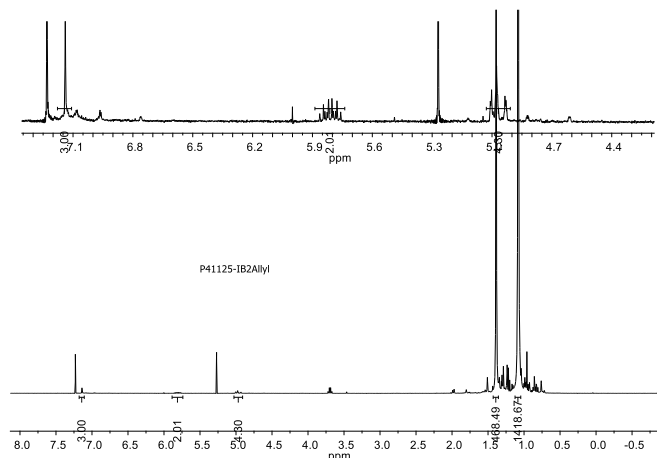
Mn x 10 ³	PDI
12.0	1.3
Allyl terminal functionality	>95%

Synthesis Procedure:

Allyl terminated polyisobutylene was prepared by cationic living polymerization of isobutylene:



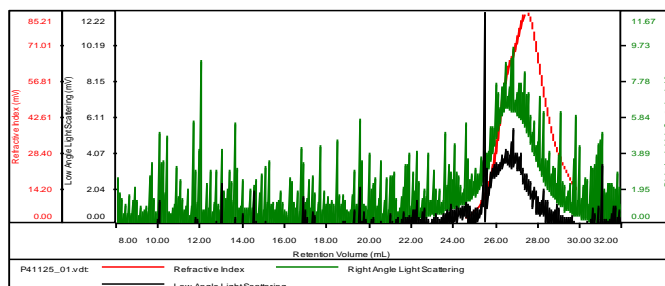
H NMR spectrum of the sample:



SEC profile of the Sample:

P41125-IB2Allyl

Concentration (mg/mL)	10.1296
Sample dn/dc (mL/g)	0.1010
Method File	PS105K-April16-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P41125_01.vdt	9,574	12,309	1.286	0.1220	8,481

Composition based on HNMR results.

Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Functionality:

The polymer's functionality was determined by ¹H-NMR spectroscopy.

Solubility:

The polymer is soluble in THF, CHCl₃, toluene, hexane.