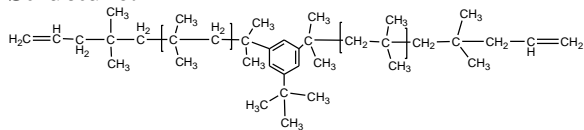


Sample Name:

α,ω -Di Allyl end terminated Polyisobutylene

Sample #: **P41127-IB2Allyl**

Structure:



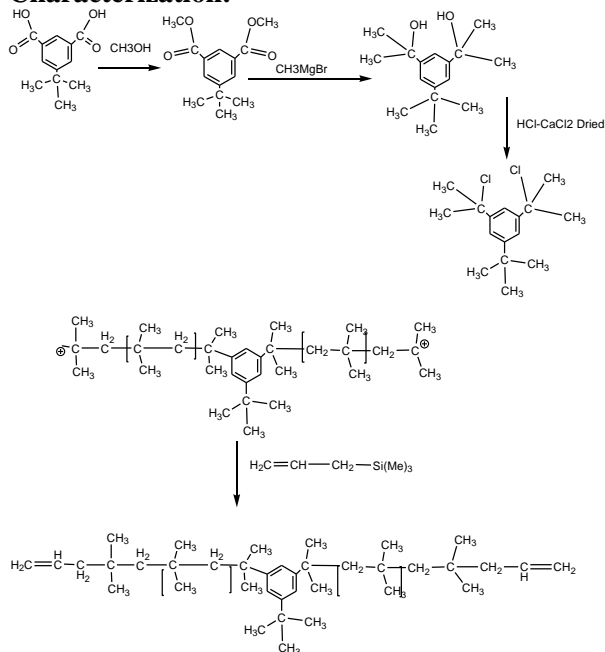
Composition:

Mn x 10 ³	PDI
3.6	1.4
Allyl terminal functionality	>95%

Synthesis Procedure:

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

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.

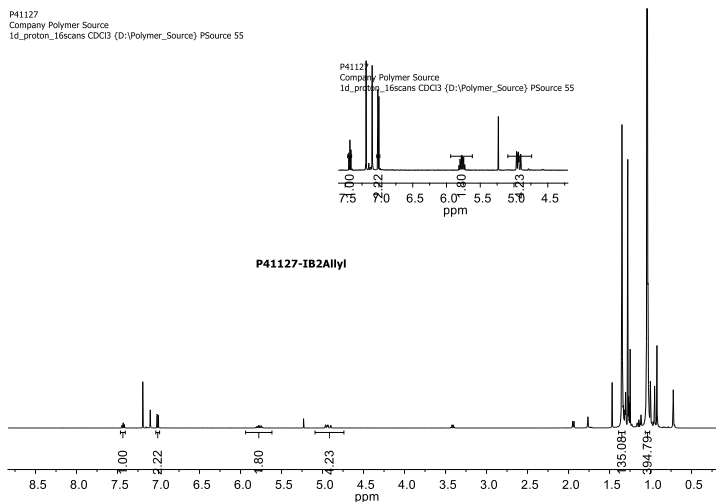
Functionality:

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

Solubility:

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

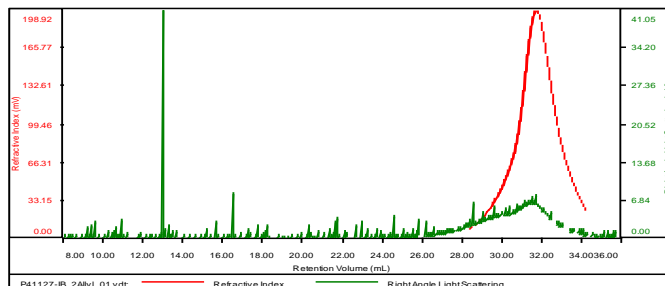
H NMR spectrum of the sample:



SEC profile of the Sample:

P41127-IB2Allyl

Concentration (mg/mL)	18.1363
Sample dn/dc (mL/g)	0.1250
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)
P41127-IB_2Allyl_0	3,647	5,097	1.398	0.1021	3,398

Composition based on HNMR results.