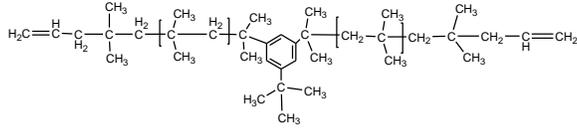


Sample Name:
 α,ω -Di Allyl end terminated Polyisobutylene

Sample #: P44273-IB2Allyl

Structure:

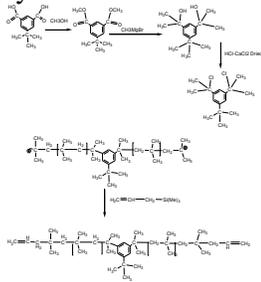


Composition:

Mn x 10 ³	PDI
1.6	1.3
Allyl 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.

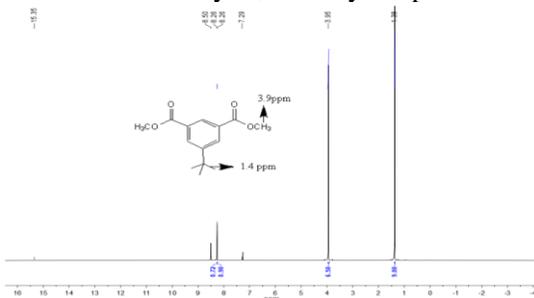
Functionality: The polymer's functionality was determined by ¹H-NMR spectroscopy.

Solubility:

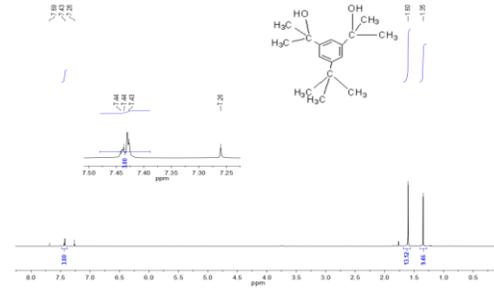
The polymer is soluble in THF, CHCl₃, toluene, and hexane.

HNMR of the catalyst:

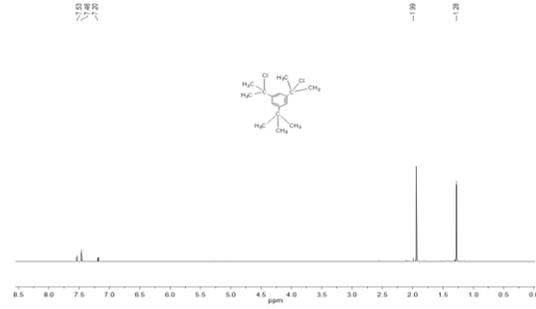
1. 5-Ter.butyl 1,3-methyl isophthalate



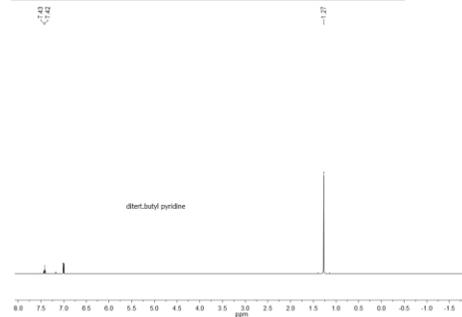
HNMR of 5 tert.butyl –isopropenyl alcohol



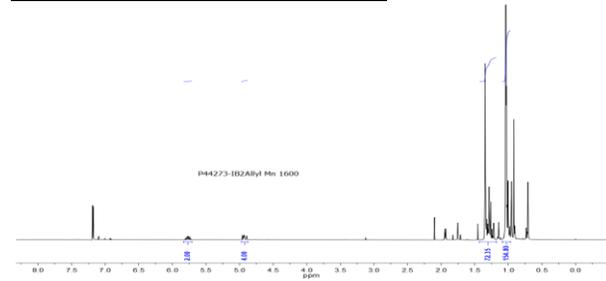
HNMR of 5-tert butyl isopropenyl chloride



HNMR of di tert.butyl pyridine



NMR spectrum of the sample:



SEC profile of the Sample:

