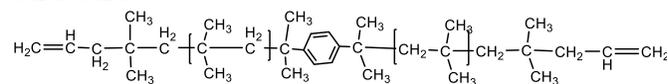


Sample Name:
 α,ω -Di Allyl end terminated Polyisobutylene
Using dicumyl Chloride initiator

Sample #: P44172-IB2Allyl

Structure:

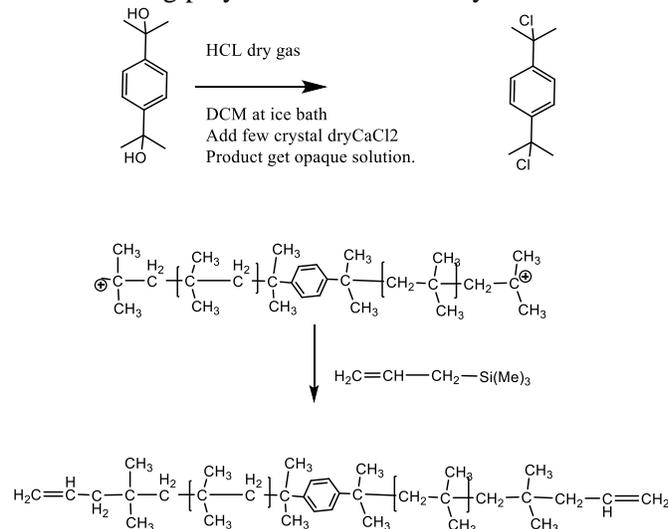


Composition:

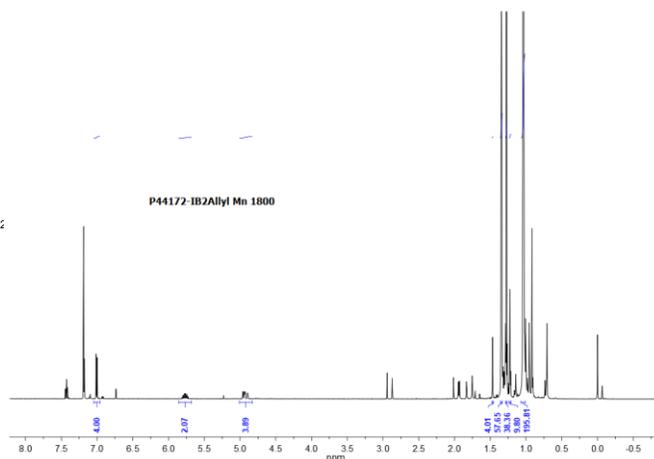
| | |
|--------------------------|------|
| Mn x 10 ³ | PDI |
| 2.0 | 1.35 |
| Allyl Functionality ~95% | |

Synthesis Procedure:

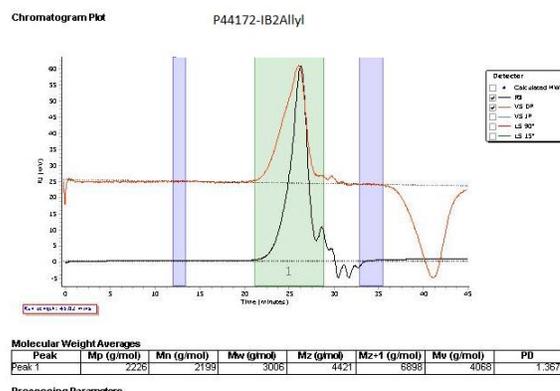
Allyl terminated polyisobutylene was prepared by cationic living polymerization of isobutylene:



HNMR spectrum of the sample:



SEC profile of the Sample:



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.