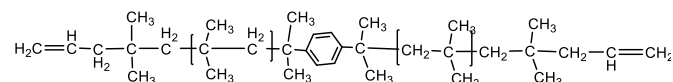


Sample Name:

**$\alpha,\omega$ -Di Allyl end terminated Polyisobutylene**  
Using dicumyl Chloride initiator

Sample #: P44172-IB2Allyl

**Structure:**

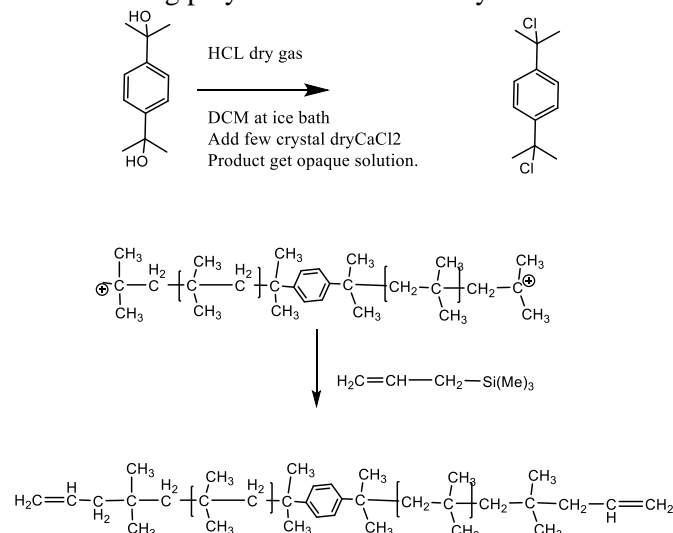


**Composition:**

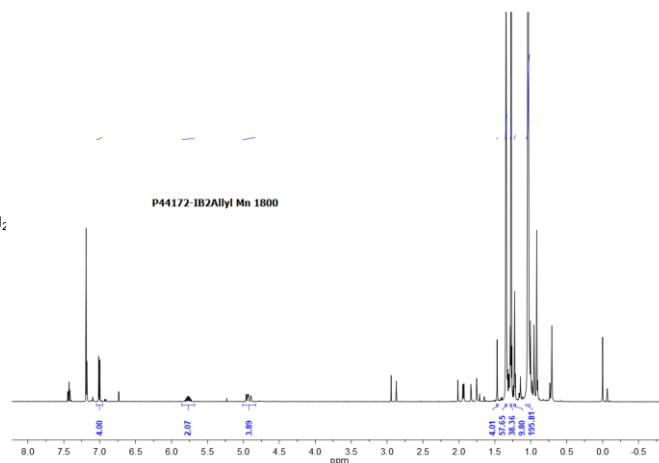
Mn x 10 <sup>3</sup>	PDI
2.0	1.35
Allyl Functionality ~95%	

**Synthesis Procedure:**

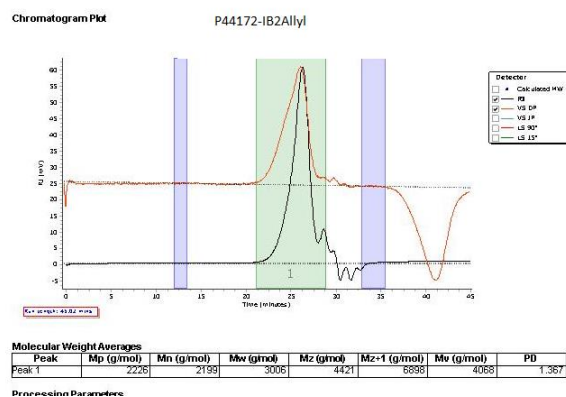
Allyl terminated polyisobutylene was prepared by cationic living polymerization of isobutylene:



**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 <sup>1</sup>H-NMR spectroscopy.

**Solubility:**

The polymer is soluble in THF, CHCl<sub>3</sub>, toluene, hexane.