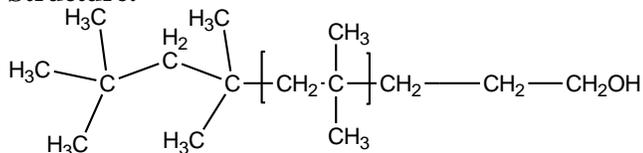


Sample Name: Poly(isobutylene), ω -hydroxy-terminated

Sample #: P42334A-IBOH

Structure:



Composition:

Mn x 10 ³	PDI
8.5	1.04
OH functionality	>95%

Synthesis Procedure: In Propane and CH₃Cl solution at -50°C using TMPCl cationic catalyst.

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.

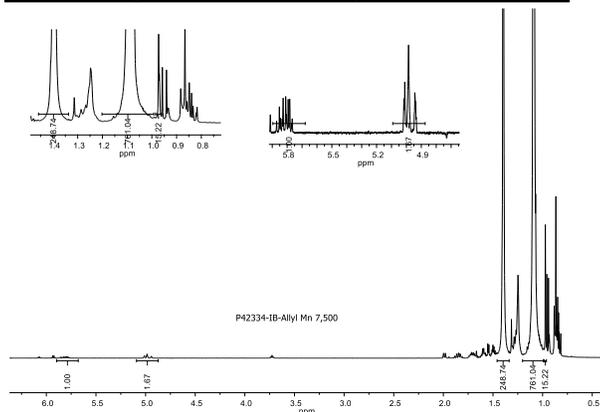
Functionality: The polymer's functionality was determined by ¹H-NMR spectroscopy.

In order to check OH functionality it was titrated with a known concentration of K naphthalene and found the functionality is higher than 77%.

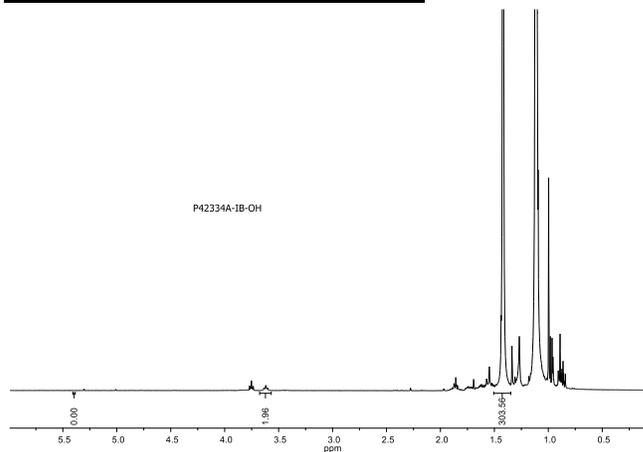
Solubility:

The polymer is soluble in THF, CHCl₃, toluene, hexane and acetone. It can be precipitated from methanol, ethanol and water.

¹H NMR spectrum of the allyl terminated IB:



¹H NMR spectrum of the Sample:

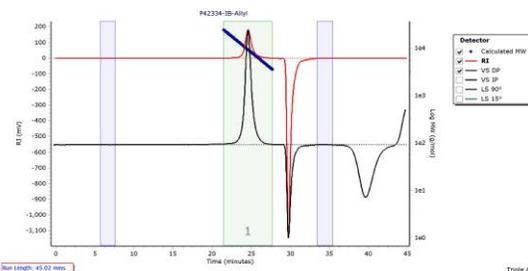


SEC elugram of the allyl terminated PIB:

Agilent GPC/SEC Software

P42334-IB-Allyl

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	9202	8729	9031	9339	9694	9269	1.035