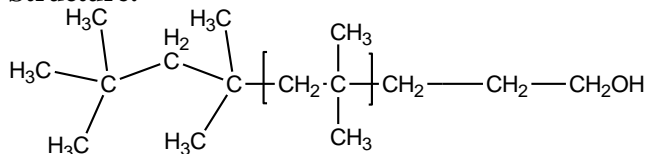


**Sample Name:** Poly(isobutylene),  $\omega$ -hydroxy-terminated

**Sample #:** P42315-IBOH

**Structure:**

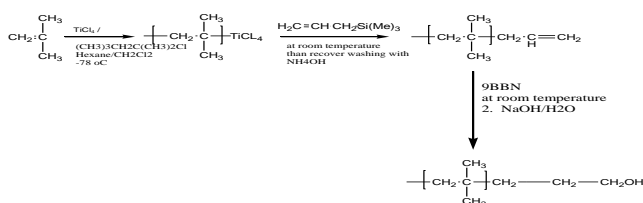


**Composition:**

Mn x 10 <sup>3</sup>	PDI
8.0	1.04
OH functionality	>77%

**Synthesis Procedure:**

The scheme of the reaction is illustrated below:



**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.

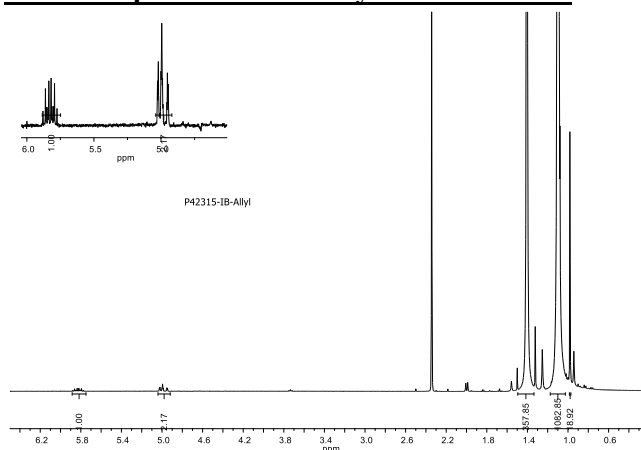
**Functionality:** The polymer's functionality was determined by <sup>1</sup>H-NMR spectroscopy.

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

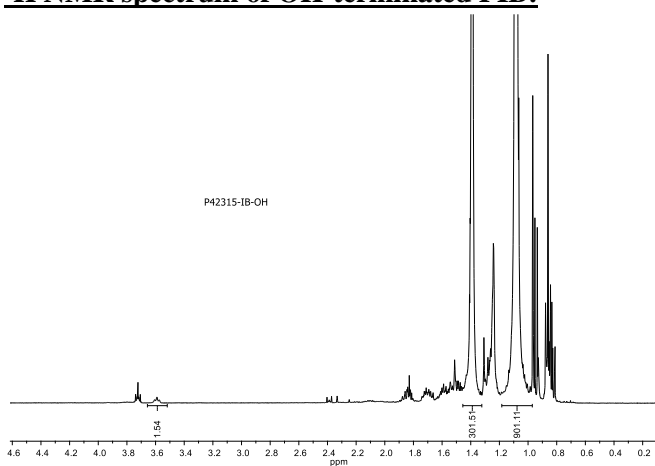
**Solubility:**

The polymer is soluble in THF, CHCl<sub>3</sub>, toluene, hexane and acetone. It can be precipitated from methanol, ethanol and water.

**<sup>1</sup>H NMR spectrum of the allyl terminated IB:**



**<sup>1</sup>H NMR spectrum of OH-terminated PIB:**



**SEC elugram of the allyl terminated PIB:**

Agilent GPC/SEC Software

