

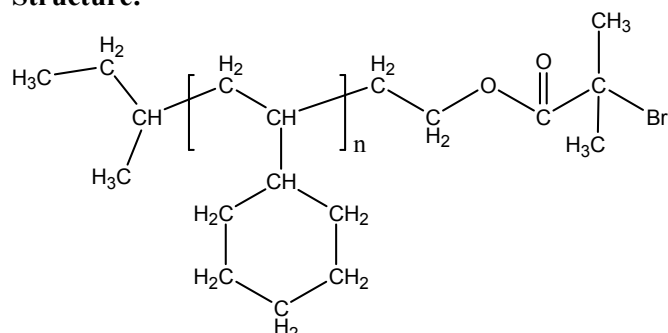
**Sample Name:**  $\omega$ -Bromo-terminated Poly (vinyl cyclohexane)

**Synonym:**

$\omega$ -Bromo-terminated Poly (cyclohexyl ethylene)

**Sample #:** P40353- VCH-Br

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
17.5	1.04
T <sub>g</sub> (°C)	92

**Synthesis Procedure:**

$\omega$ -Br Terminated Poly cyclohexyl ethylene was prepared by Hydrogenation of OH terminated Polystyrene and then converting OH to Br by thionyl bromide

**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR.

**Solubility:**

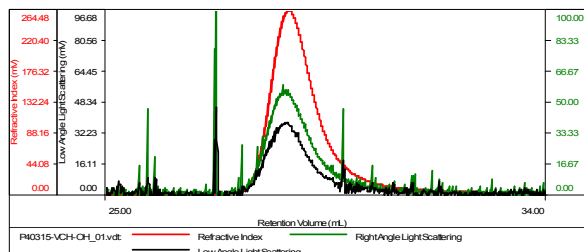
Polymer is soluble in toluene, THF, CHCl<sub>3</sub> and can be precipitated in water and cold methanol.

**SEC elugram of the Sample:**

Used to convert OH terminal to Br

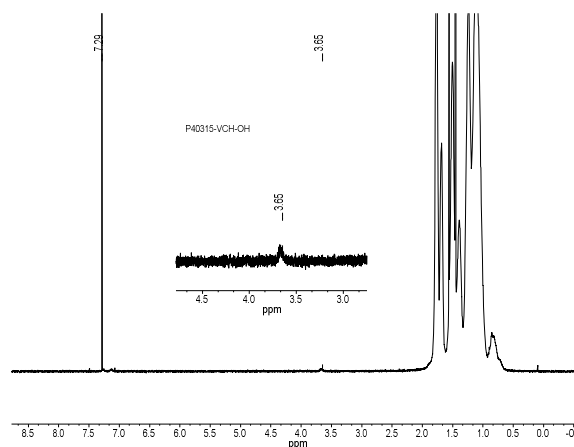
P40315-VCH-OH

Concentration (mg/mL)	5.0435
Sample dn/dc (mL/g)	0.1550
Method File	PS80K-Nb(2016-6-0000).vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40315-VCH-OH_01.vt	17,536	18,284	1.043	0.1670	17,081

**HNMR spectrum of the Polymer: VCH-OH terminated**



**After converting OH to Br**

