

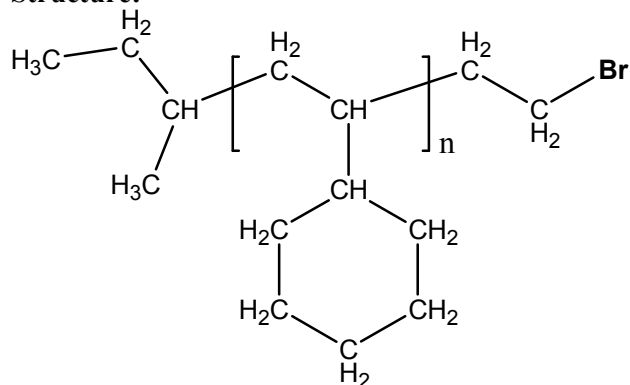
Sample Name: :  $\omega$ -Bromo-terminated Poly (vinyl cyclohexane)

Synonym:

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

Sample #: **P40315B-VCHBr**

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
17.5	1.04
$T_g (^{\circ}C)$	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  $^1H$  NMR.

**Solubility:**

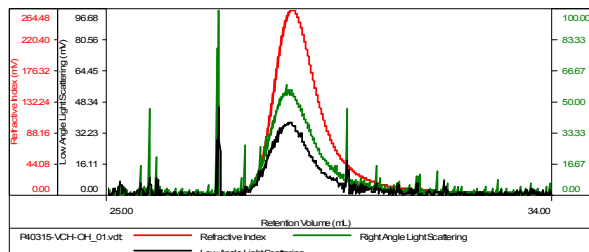
Polymer is soluble in toluene, THF,  $CHCl_3$  and can be precipitated in water and cold methanol.

**SEC elugram of the Sample:**

Used to convert OH terminal to Br

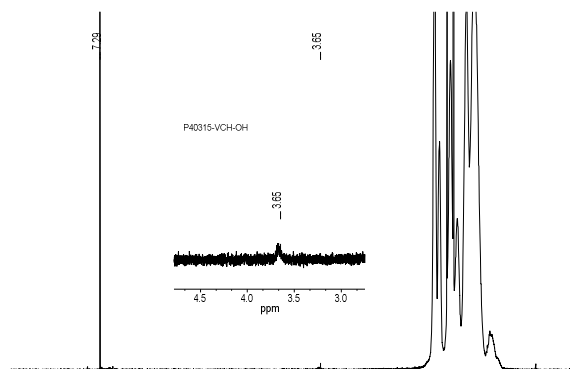
**P40315-VCH-OH**

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

**$^1H$  NMR spectrum of the Polymer: VCH-OH Terminated**



After converting OH to Br

