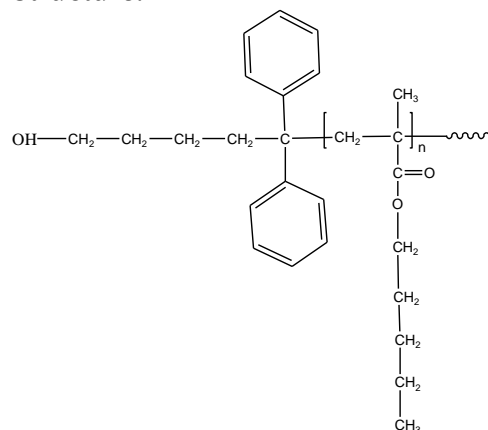


Sample Name:

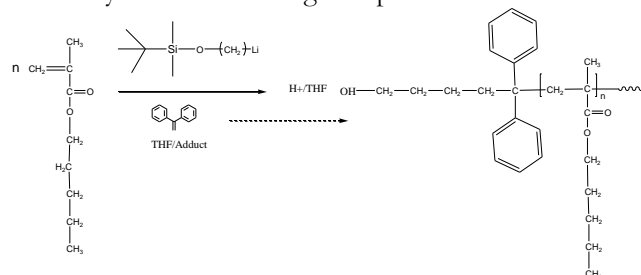
Hydroxy Terminated Poly(n-butyl methacrylate)

Sample #: P9323-nBuMAOH**Structure:****Composition:**

$M_n \times 10^3$	PDI
34.0	1.4
Functionality	>98%
T_g for the polymer	11 °C

Synthesis Procedure:

OH Terminated Poly(n-butyl methacrylate) was prepared by anionic living polymerization of n-butyl methacrylate in THF using OH protected initiator.

**Characterization:**

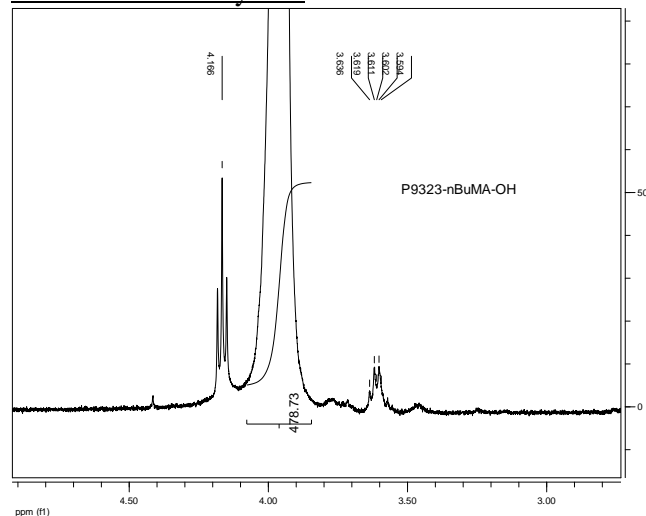
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector before the addition of the CO₂H function.

Thermal analysis:

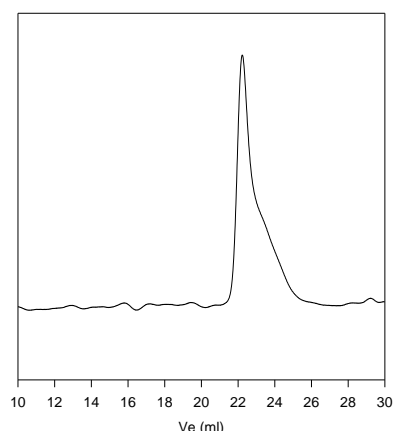
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

Solubility:

The polymer is soluble in CHCl₃, THF and dioxane.

HNMR of the Polymer:**SEC of Sample:**

P9323-nBuMAOH



Size Exclusion Chromatography of Amino Terminated OH terminated Poly(n-butyl methacrylate)

$M_n=34000$ $M_w=38700$, $PI=1.4$ functionality >0.99%

DSC thermogram for the sample: