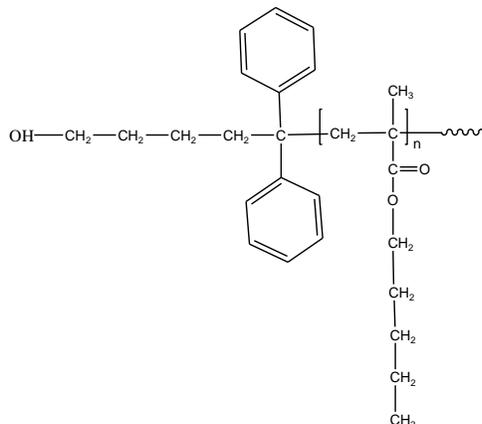


Sample Name:

Hydroxy Terminated Poly(n-butyl methacrylate)

Sample #: P9323-nBuMAOH

Structure:

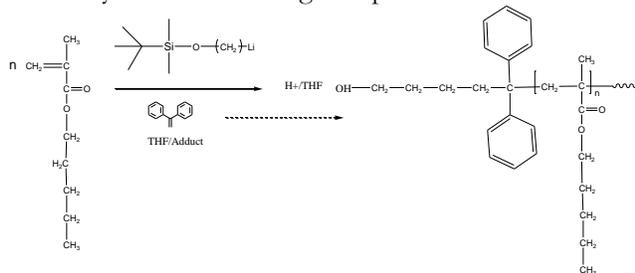


Composition:

$M_n \times 10^3$	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.

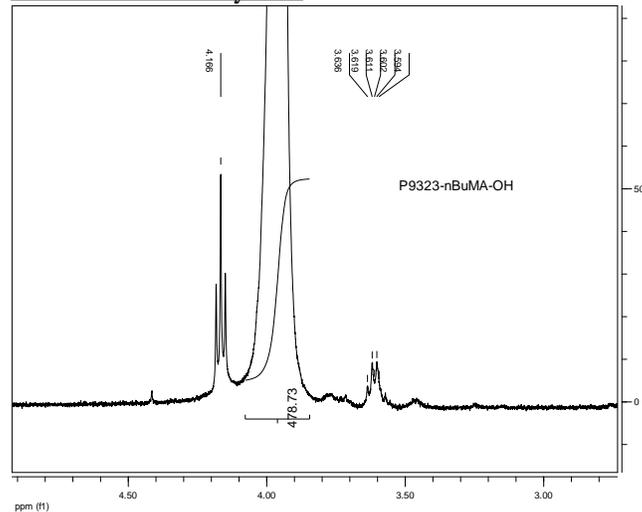
Thermal analysis:

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:

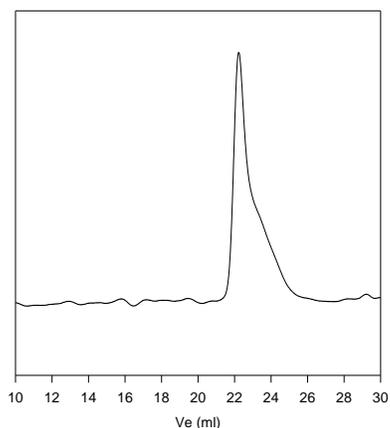
The polymer is soluble in CHCl₃, THF and dioxane.

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:

