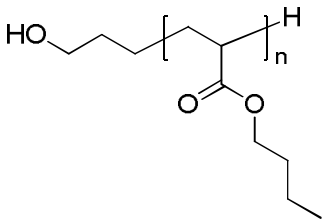
Sample Name:

Hydroxypropyl-terminated poly(n-butyl acrylate)

Sample #: **P1733-nBuAOH**

Structure:

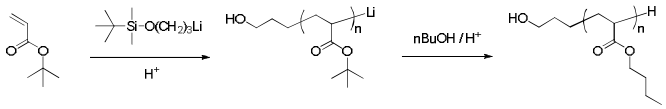


Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
3.0	1.16

Synthesis Procedure:

Hydroxy-terminated poly(*n*-butyl acrylate) was synthesized by living anionic polymerization of *tert*-butyl acrylate using a hydroxyl-terminated initiator, followed by tran-sesterification to get poly(*n*-butyl acrylate). The scheme of reaction is shown below:



Characterization:

The molecular weight and polydispersity index (M_w/M_n) of the polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a triple detector. Trans-esterification (disappearance of the *tert*-butyl group) was confirmed by FT-IR analysis.

SEC elugram:

P1733-nBuAOH