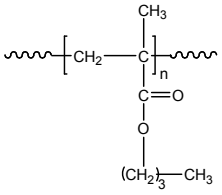
Sample Name: Poly(n-butyl methacrylate)

Sample #: P6745-nBuMA

Structure:



Composition:

Mn × 10^3	PDI
15.0	1.09
T_g (°C)	29

Synthesis Procedure:
Poly(n-butyl methacrylate) is obtained by GTP process.

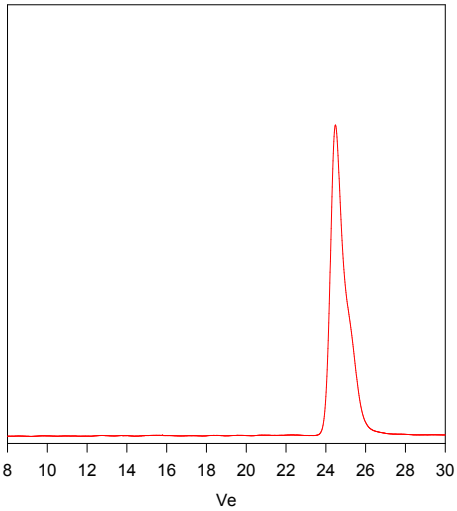
Characterization:

The molecular weight and polydispersity index (PDI) of Poly(n-butyl methacrylate) are obtained by size exclusion chromatography.

Thermal analysis of the sample:
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min.The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:
Poly(n-butyl methacrylate) is soluble in THF, $CHCl_3$, toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

SEC of Homopolymer:
P6745-nBuMA



Size Exclusion Chromatography of Poly(n-butyl methacrylate):

M_n= 15000, M_w= 16400, PI=1.09

DSC thermogram for the polymer: