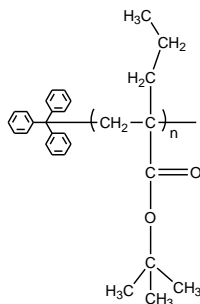


**Sample Name:** Poly(tert.butyl α-propyl acrylate)

**Sample #:** P6815-PrtBuA

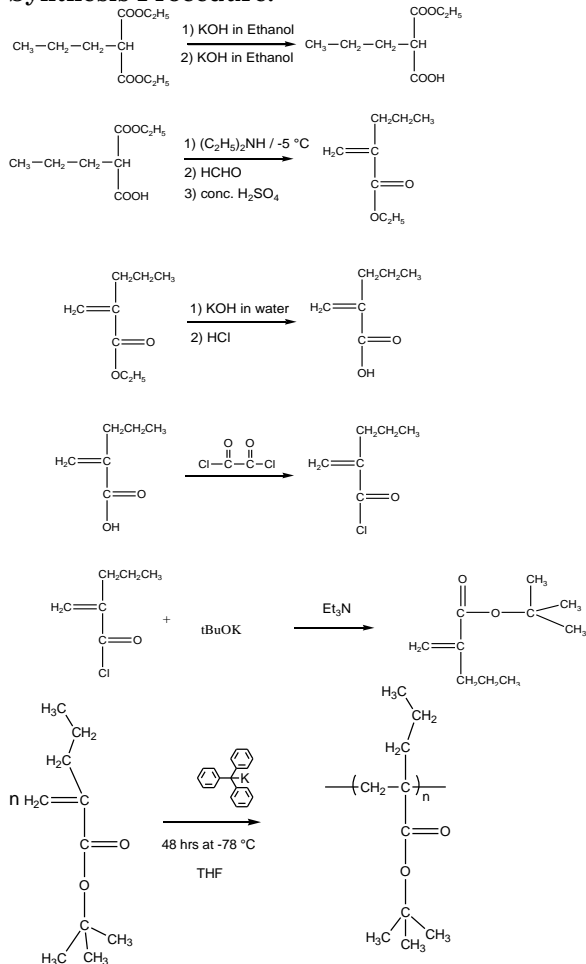
**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
5.0	1.09
$T_g$ (°C)	72

**Synthesis Procedure:**



**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

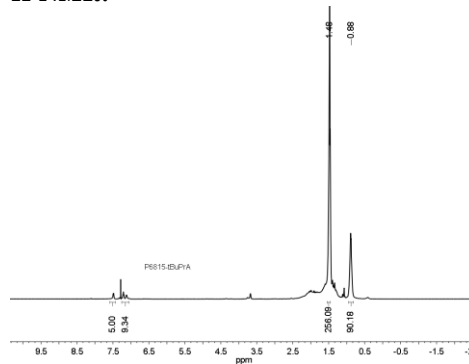
**Thermal analysis:**

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:**

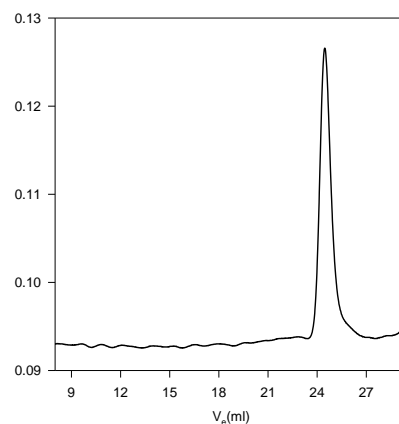
Poly(tert.butyl α-propyl acrylate) is soluble in THF,  $CHCl_3$  and toluene, and can be precipitated from cold ethanol and methanol.

**H NMR:**



**SEC of sample:**

P6815-PrtBuA



Size exclusion chromatography of Poly(alpha-propyl t-Butyl acrylate)  
 $M_n = 5,000$ ;  $M_w = 5,500$ ;  $PI = 1.09$

**DSC thermogram for the polymer:**

