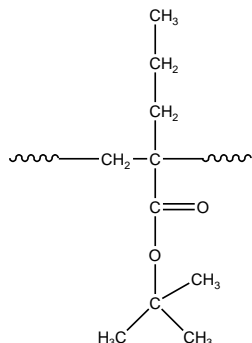


Sample Name:

**Poly(tert.butyl α-propyl acrylate)**

Sample #: P8291-PrtBuA

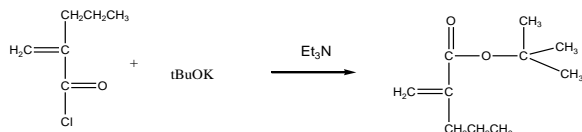
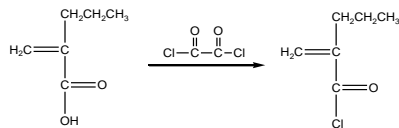
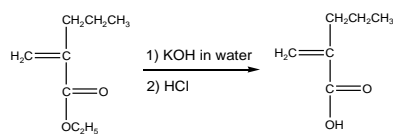
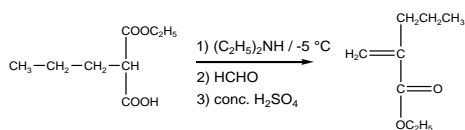
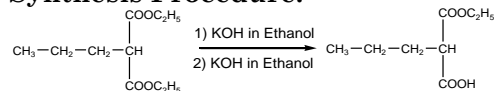
**Structure:**



**Composition:**

| Mn × 10 <sup>3</sup> | PDI  |
|----------------------|------|
| 6.5                  | 1.07 |
| T <sub>g</sub> (°C)  | 65   |

**Synthesis Procedure:**



**Characterization:**

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

**Thermal analysis:**

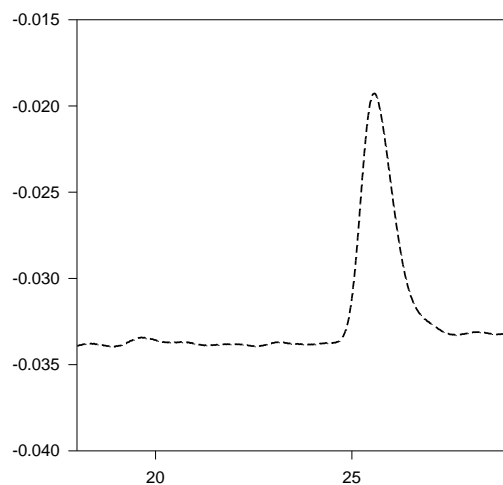
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T<sub>g</sub>).

**Solubility:**

Poly(tert.butyl α-propyl acrylate) is soluble in THF, CHCl<sub>3</sub> and toluene, and can be precipitated from cold ethanol and methanol.

**SEC of sample:**

P8291-PrtBuA



Size exclusion chromatography of Poly(α-propyl ethyl acrylate)

Mn = 6500; Mw = 7000; PI = 1.07

**DSC thermogram for the polymer:**

