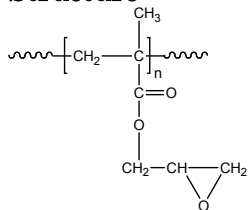


Sample Name:  
Poly(glycidyl methacrylate)

Sample #: P14093-GMA  
(by GTP process)

**Structure:**

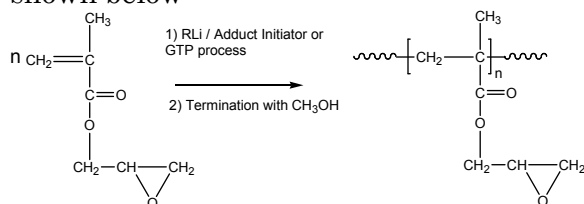


**Composition:**

Mn x 10 <sup>3</sup>	PDI
11.0	1.3
T <sub>g</sub> (°C)	72
Microstructure S:H:I 55:33:12	

**Synthesis Procedure:**

Poly(glycidyl methacrylate) is obtained by living anionic /GTP polymerization of glycidyl methacrylate. The reaction scheme used for the polymer synthesis is shown below:



**Characterization:**

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

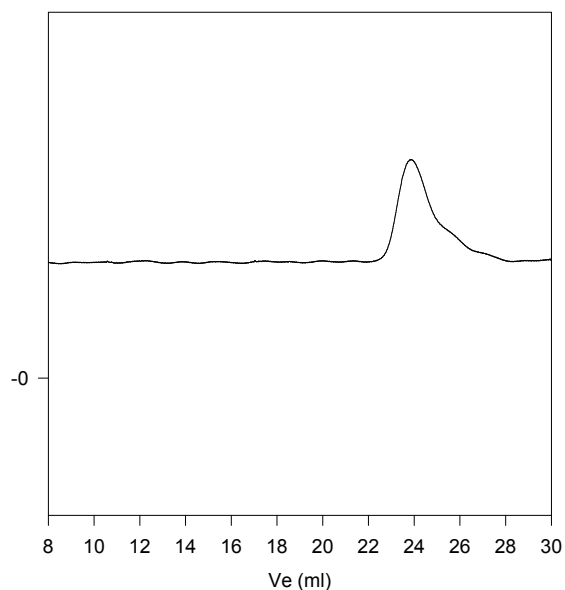
**Thermal analysis**

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>).

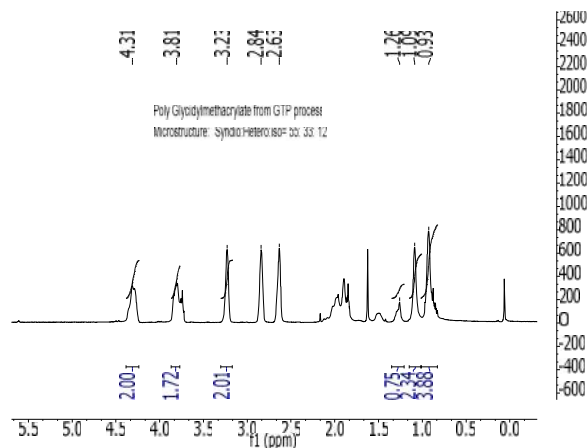
**Solubility:**

Poly(glycidyl methacrylate) is soluble in THF, CHCl<sub>3</sub>, toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

**SEC of Homopolymer:**  
P14093-GMA



Size Exclusion Chromatography of Poly(glycidyl methacrylate)  
M<sub>n</sub>=11,000, M<sub>w</sub>=14,500, PI=1.3



**DSC thermogram for the polymer:**

