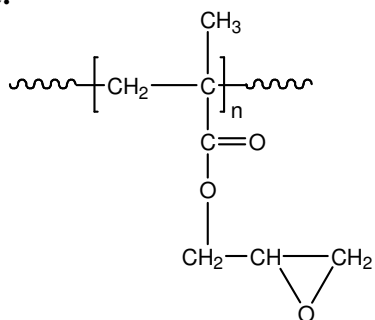


**Sample Name:** Poly(glycidyl methacrylate)

**Sample #:** P14820-GMA

**Structure:**



**Composition:**

| Mn x 10 <sup>3</sup>                           | PDI  |
|--|------|
| 425.0  | 1.27 |
| T <sub>g</sub> (°C)                            | 72   |
| Microstructure: Syndio:Hetero:iso = 41: 20: 37 |      |

**Synthesis Procedure:**

By RAFT process:

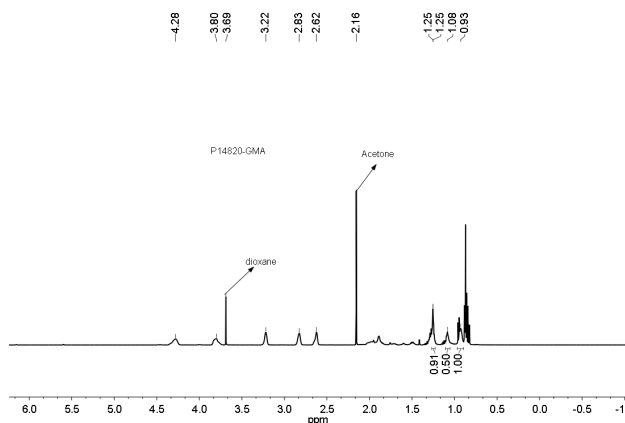
**Characterization:**

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>).

**H NMR:**



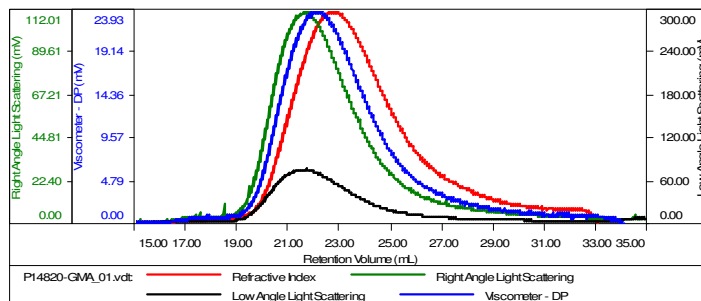
**Solubility:**

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:**

**Sample ID:** P14820-GMA

|                       |                           |
|-----------------------|---------------------------|
| Concentration (mg/mL) | 2.4339                    |
| Sample dn/dc (mL/g)   | 0.0940                    |
| Method File           | PS80K-Dac17-2014-0000.vcm |
| Column Set            | 3x PL 1113-6300           |
| Solvent               | THF                       |



| Sample            | MW Number Average (Da) | MW Weight Average (Da) | MW at Peak (Da) | Polydispersity | Intrinsic Viscosity (dL/g) |
|-------------------|------------------------|------------------------|-----------------|----------------|----------------------------|
| P14820-GMA_01.vcl | 424,977                | 560,512                | 534,475         | 1.319          | 0.9147                     |

**DSC thermogram of the polymer:**

