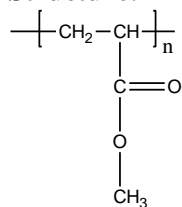


Sample Name: Poly (methyl acrylate)

Sample #: P40257-MA

By GTP process

Structure:



Composition:

| Mn x 10 ³ | PDI |
|----------------------|-----|
| 4.2 | 1.9 |

Synthesis Procedure: The polymer was synthesized by GTP polymerization

Characterization:

The polymer was characterized by SEC.

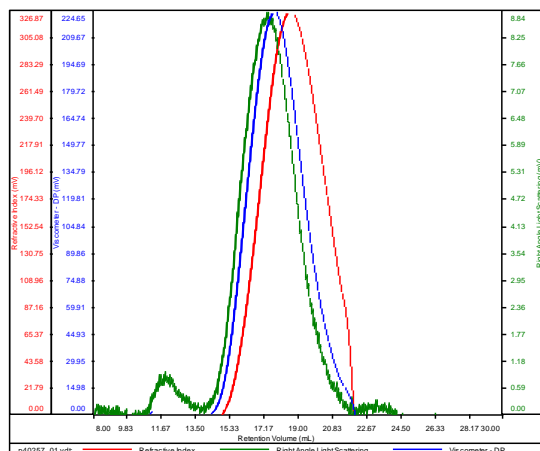
Solubility:

Poly (methyl acrylate) is soluble in THF, toluene and CHCl₃. This polymer precipitates from methanol containing 10-15% water.

SEC elugram of the Sample:

P40257-MA

| | |
|--------------|--------------------------|
| Conc (mg/mL) | 115.9501 |
| dn/dc (mL/g) | 0.0650 |
| Method | PS80k-Nov162016-0000.vcm |
| Solvent | DMF w 0.023M LiBr |
| Column | PSS |



| Sample | Mn | Mw | Mp | Mw/Mn | IV |
|---------------|-------|-------|-------|-------|--------|
| p40257_01.vdt | 4,127 | 8,093 | 6,571 | 1.961 | 0.0737 |

References:

1. Ph. Teyssie, Ph. Bayard, R. Jerome, **S. K. Varshney**, and J. S. Wang, *35th IUPAC International Union of Pure & Applied Chemistry International Symposium on Macromolecules* 1994, 67.
2. R. Fayt, R. Forte, C. Jacobs, R. Jerome, T. Ouhadi, Ph. Teyssie and **S. K. Varshney**, *Macromolecules*, 1987, 20, 1442-1444.
3. Jerome, R. Forte, **S. K. Varshney**, R. Fayt, and Ph. Teyssie, "The Anionic Polymerization of Alkylacrylates: A Challenge" in the Recent Advances in Mechanistic and Synthetic Aspects of Polymerization: M. Fontanille and A. Guyot Ed., NATO ASI Series C 215, 101 (1987), CA Vol. 108, 12, 094992.
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