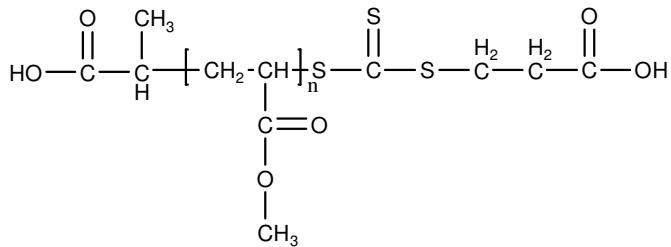


Sample Name: Poly(methyl acrylate), RAFT-agent terminated

Sample #: P16026-MA-RAFT macroinitiator

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
14.0	1.13

**Synthesis Procedure:**

The poly(methyl acrylate) was prepared by RAFT controlled process of methyl acrylate monomer in 1,4-dioxane.

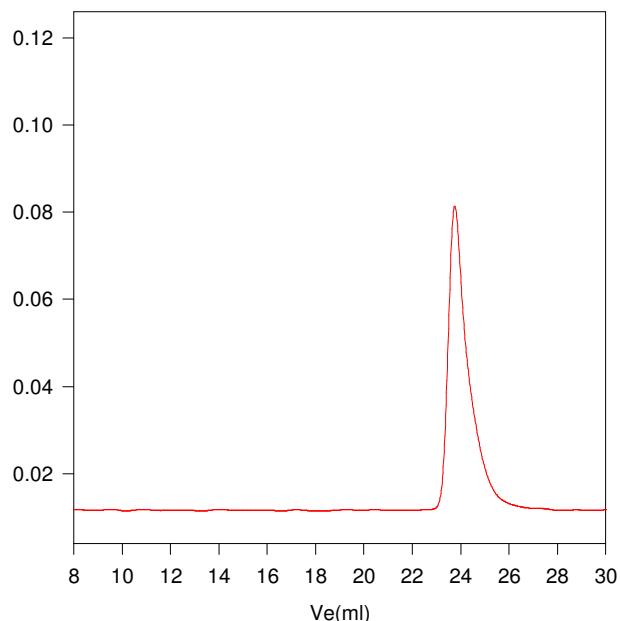
**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in DMF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and light scattering detectors.

**Solubility:**

Poly(methyl acrylate) is soluble in THF and DMF. This polymer precipitates from methanol containing 10-50% water.

**SEC elugram of the polymer:**  
**P16026-MA**



Size exclusion chromatography of poly(methyl methacrylate):  
M<sub>n</sub>=14,000, M<sub>w</sub>=16,000, M<sub>w</sub>/M<sub>n</sub>=1.13

**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. Fontanaille and A. Guyot Ed., NATO ASI Series C 215,101 (1987), CA Vol. 108, 12, 094992.
4. Ph. Teyssie, R. Fayt, C. Jacobs, R. Jerome, L. Leemans, and **S. K. Varshney** *Am. Chem. Soc., Polym. Prepr.* 1988, 28, 2, 52-53.