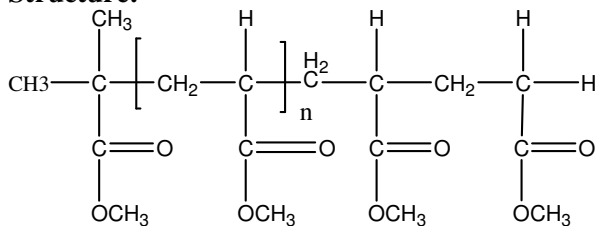


Sample Name: Poly(methyl acrylate)

Sample #: P19923-PMA

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
9.5	1.7

**Synthesis Procedure:**

Poly(methyl acrylate) is obtained by GTP process:

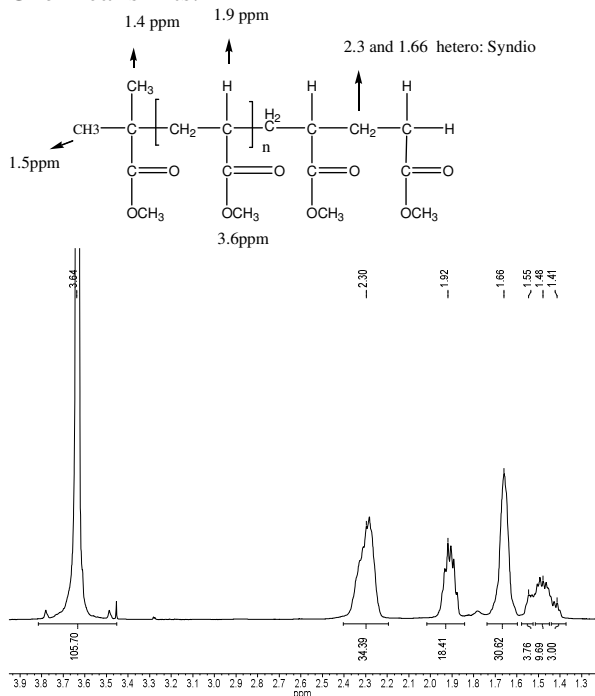
**Characterization:**

The polymer was characterized by <sup>1</sup>H NMR and SEC

**Solubility:**

Poly(methyl acrylate) is soluble in THF, hexanes (low MW), toluene and CHCl<sub>3</sub>. This polymer precipitates from ethanol and methanol containing 10-15% water.

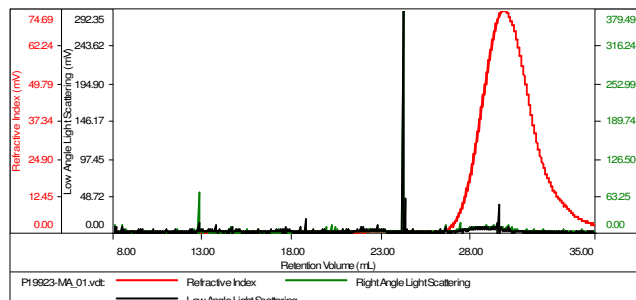
**Chemical shifts:**



**SEC elugram of the polymer:**

**Sample ID:**P19923-MA

Concentration (mg/mL)	6.8375
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-April-18-2016-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mh (Da)	Mw (Da)	Mw/Mh	IV (dL/g)	Mp (Da)
P19923-MA_01.vdt	9,270	16,231	1.751	0.0400	11,945

**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.
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