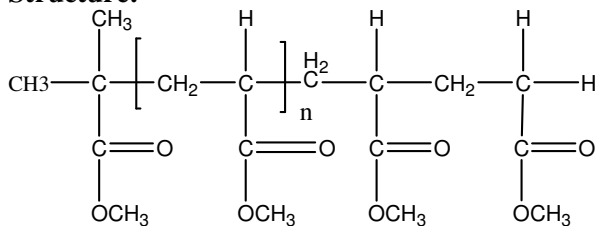


Sample Name: Poly(methyl acrylate)

Sample #: P19927-MA

Structure:



Composition:

Mn x 10 ³	PDI
17.0	1.45

Synthesis Procedure:

Poly(methyl acrylate) is obtained by GTP process:

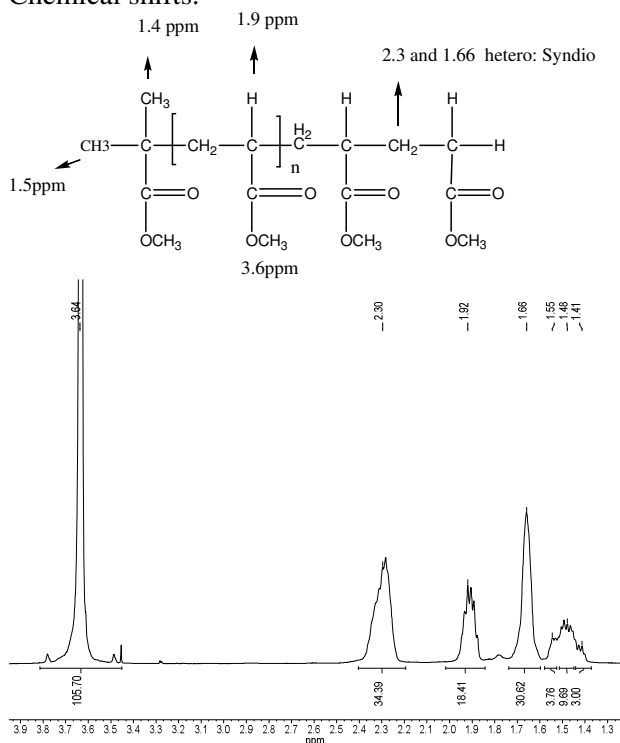
Characterization:

The polymer was characterized by SEC and ¹H NMR

Solubility:

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

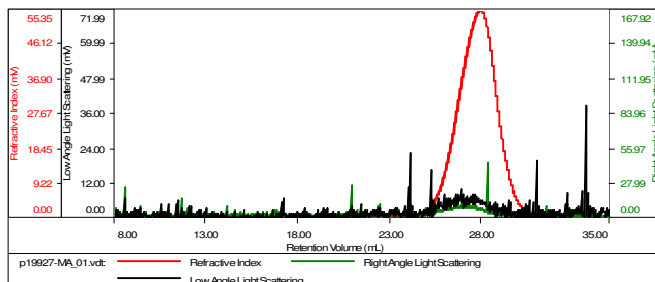
Chemical shifts:



SEC elugram of the polymer:

Sample ID: P19927-MA

Concentration (mg/mL)	3.7495
Sample chdc (mL/g)	0.0840
Method File	PS80K-April-18-2016-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
p19927-MA_01.vdt	17,013	24,598	1.446	0.2186	17,585

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