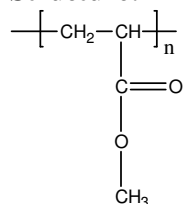


**Sample Name:** Poly(methyl acrylate)

**Sample #:** P20281C-MA By RAFT Process

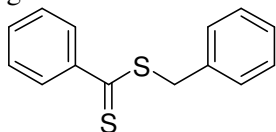
**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
18.0	1.09

**Synthesis Procedure:** By RAFT process using:



Dithiobenzoic acid benzyl ester

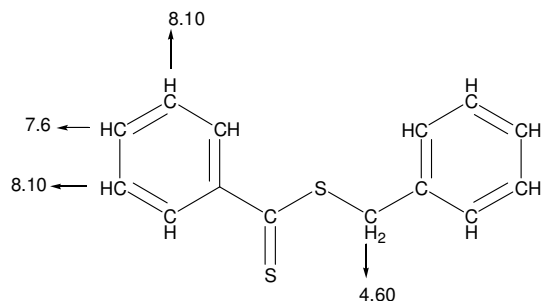
**Characterization:**

The polymer was characterized by SEC.

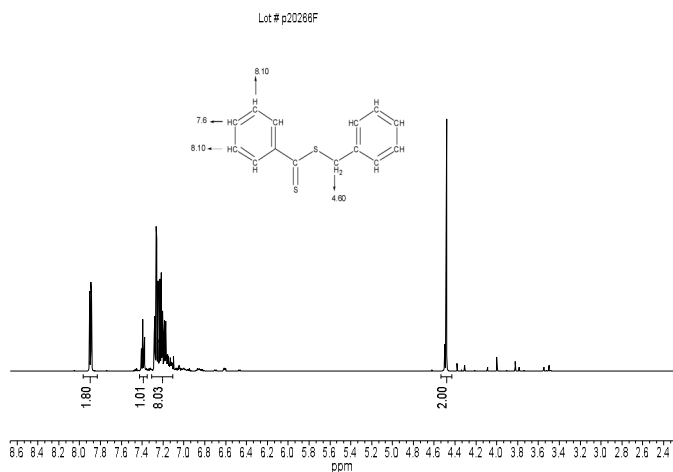
**References:**

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

**HNMR of the RAFT:**



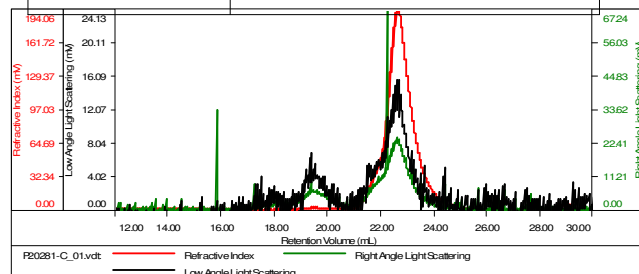
**<sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>):**



**SEC elugram:**

**Sample ID-P20281C-MA**

Concentration (mg/mL)	2.4274
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-June30-2015-0000.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)
P20281-C_01.vdt	18,154	19,886	17,364	1.094	0.8343