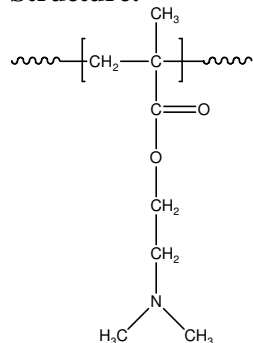


Sample Name:  
**Poly(N,N-dimethylaminoethyl methacrylate)**

Sample #: **P40047-DMAEMA**  
 (obtained by Anionic process )

**Structure:**



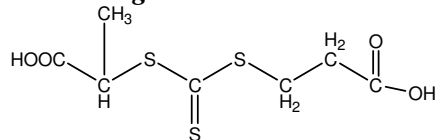
**Composition:**

Mn × 10 <sup>3</sup>	PDI
27.5	1.11

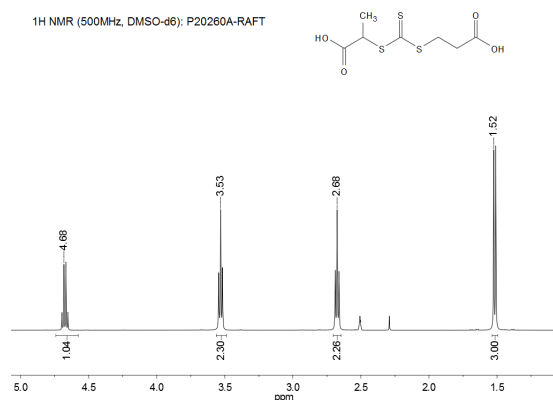
**Synthesis Procedure:**

Poly(N,N-dimethyl aminoethyl methacrylate) was synthesized by RAFT process..

**RAFT reagent used:**



**<sup>1</sup>H NMR spectrum of the RAFT reagent:**



**Characterization:**

The molecular weight and polydispersity index (PDI) were obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco

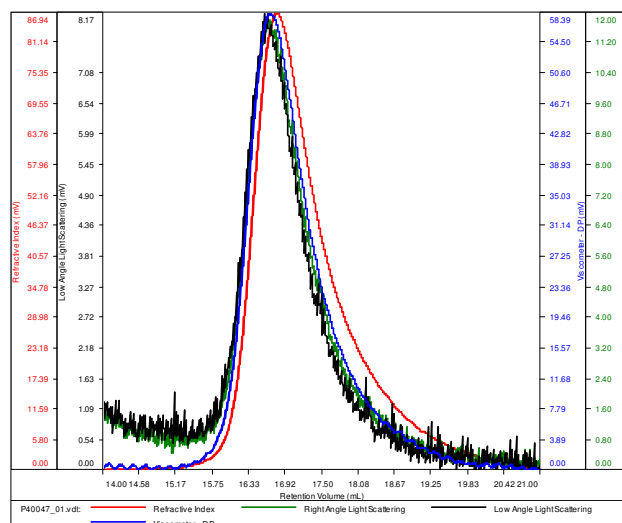
(G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

**Solubility:**

Poly(N,N-dimethylaminoethyl methacrylate) is soluble in THF, CHCl<sub>3</sub>.

**SEC elugram of Homopolymer:**  
**P40047-DMAEMA**

Conc (mg/mL)	5.0908
dn/dc (mL/g)	0.0840
Method	PS80k-July22-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40047_01.vdt	27,351	30,451	30,590	1.113	0.1640