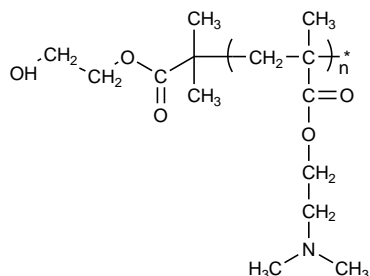


Sample Name:
Poly-(N,N-dimethylaminoethyl methacrylate)

Sample #: **P16075A-DMAEMA**

Structure:



Composition:

Mn x 10 ³	34.5
PDI	1.20

Synthesis:

Poly(N,N-dimethylaminoethyl methacrylate) was synthesized by atom transfer radical polymerization.

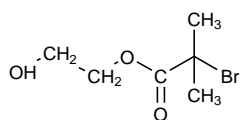
Characterization:

The molecular weight and polydispersity index (PDI) of Poly(N,N-dimethylaminoethyl methacrylate) were obtained by size exclusion chromatography (SEC).

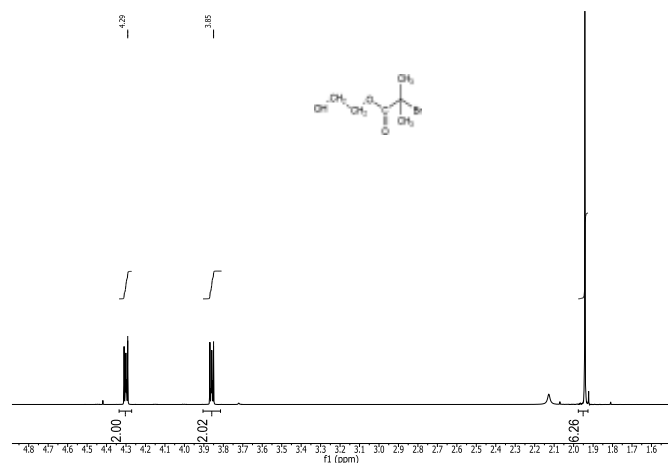
Solubility:

The polymer is soluble in THF, DMF, and Acetone.

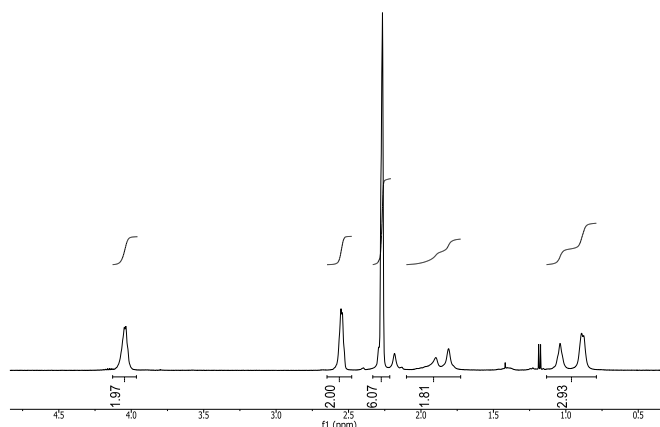
ATRP reagent used for polymerization:



¹H NMR spectrum of the ATRP reagent in CDCl₃:



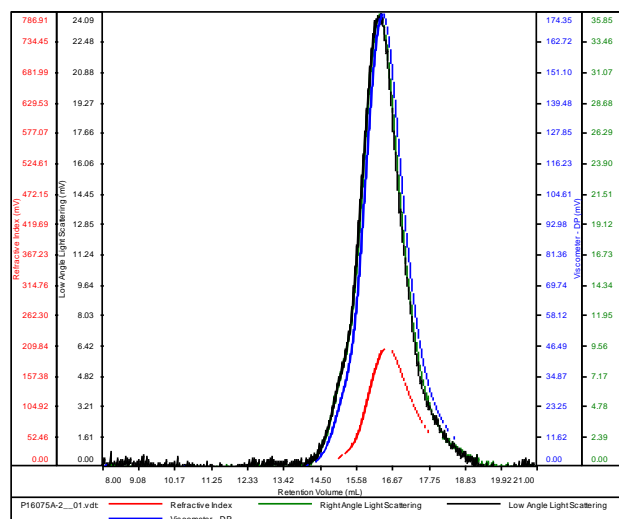
¹H NMR Spectrum of the homopolymer:



SEC elugram of the polymer:

P16075A-DMAEMA

Conc (mg/mL)	15.3206
dn/dc (mL/g)	0.0800
Method	PS80k-July22-2016-0000.vcm
Solvent	DMF w/0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P16075A-2_01.vdt	34,474	40,819	41,266	1.184	0.1996