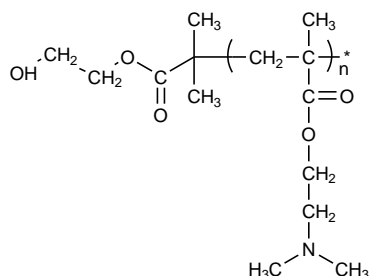


Sample Name:
Poly-(N,N-dimethylaminoethyl methacrylate)

Sample #: **P16075B-DMAEMA**

Structure:



Composition:

Mn x 10 ³	27.5
PDI	1.17

Synthesis:

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

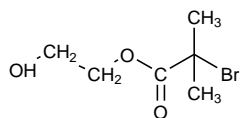
Characterization:

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

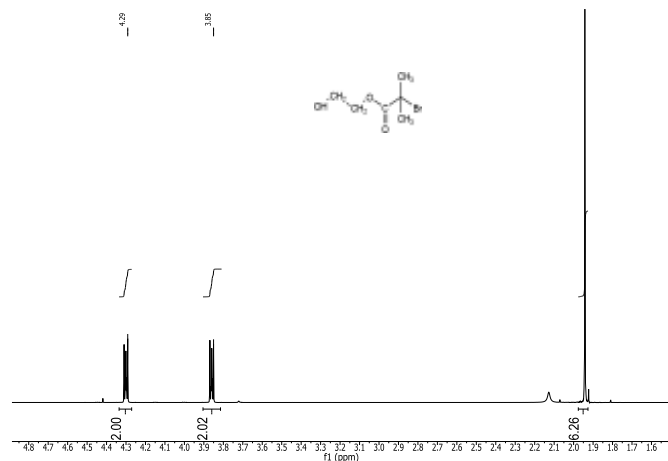
Solubility:

The polymer is soluble in THF, DMF, Acetone.

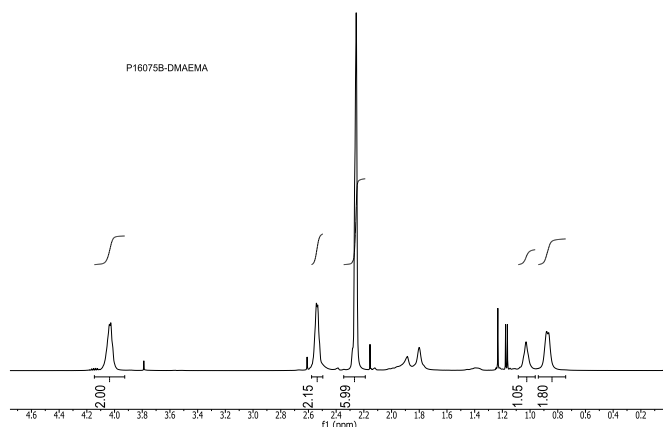
ATRP reagent used for polymerization:



¹H NMR spectrum of the ATRP reagent in CDCl₃:



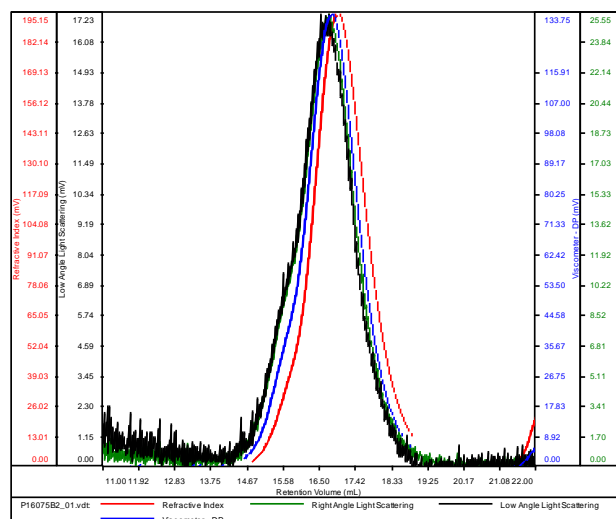
¹H NMR Spectrum of the homopolymer P16075B:



SEC elugram of the polymer:

P16075B-DMAEMA

Conc (mg/mL)	13.9203
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
P16075B2_01.vcl	27,567	32,397	28,866	1.175	0.1817