

Figure S1. ¹H NMR spectra of 2,2,6,6-tetramethyl-4-piperidyl methacrylate (solvent:CDCl₃).

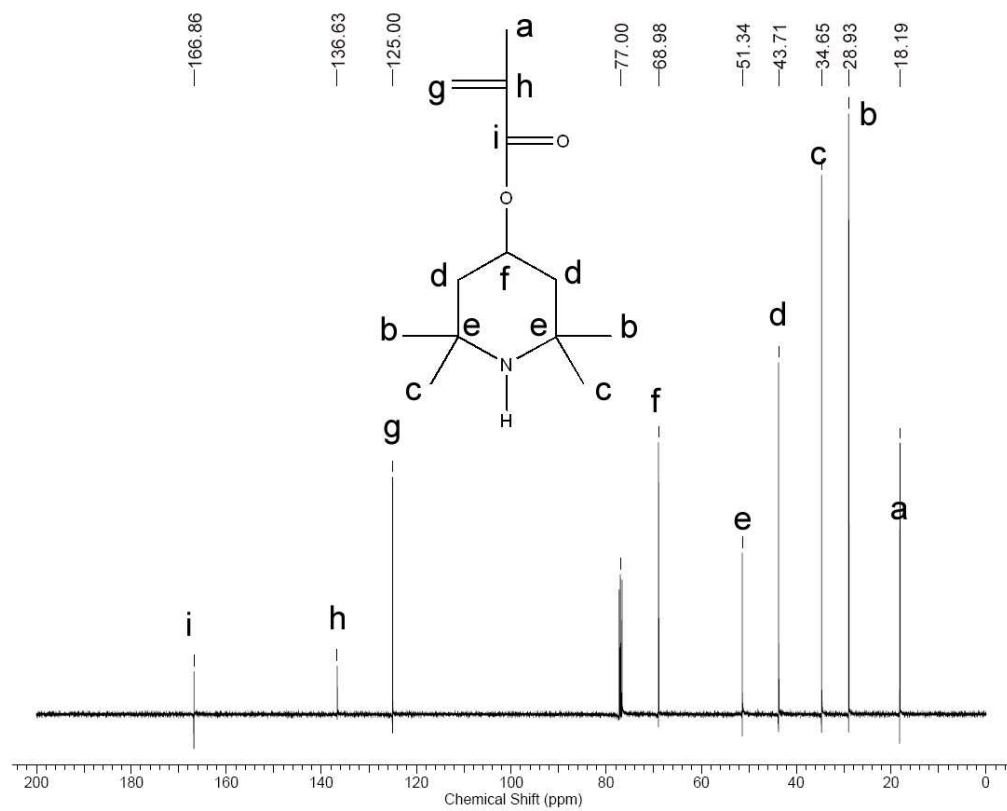


Figure S2. ¹³C NMR spectra of 2,2,6,6-tetramethyl-4-piperidyl methacrylate (solvent:CDCl₃).

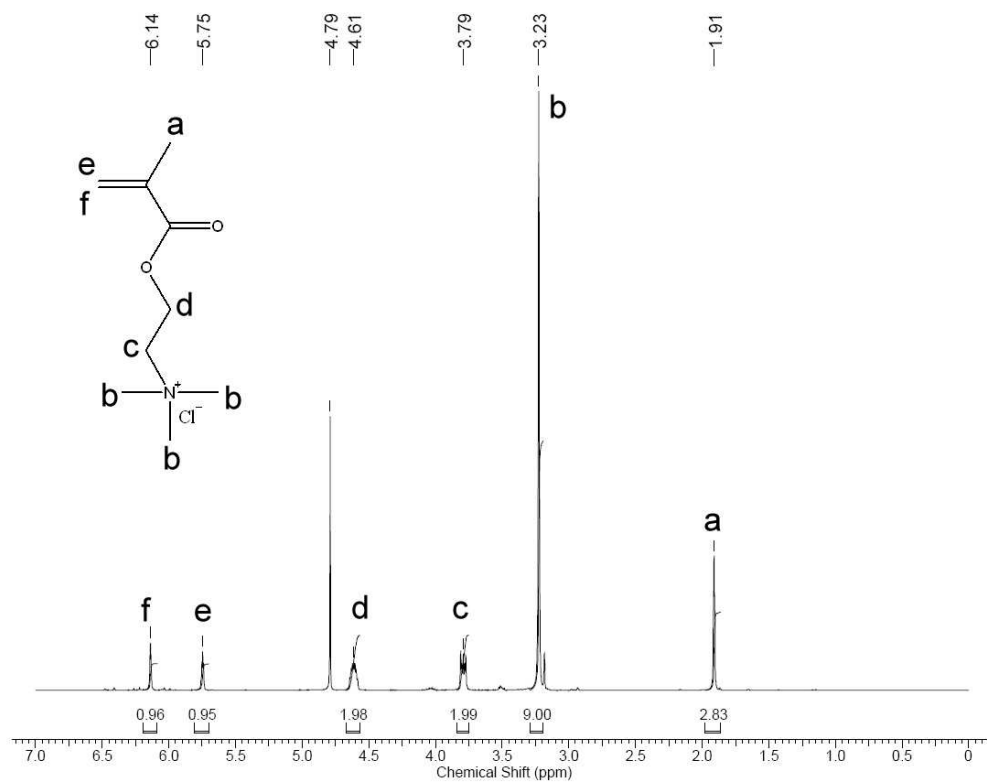


Figure S3. ^1H NMR spectra of trimethyl-2-methacryloxyethylammonium chloride (solvent: D_2O).

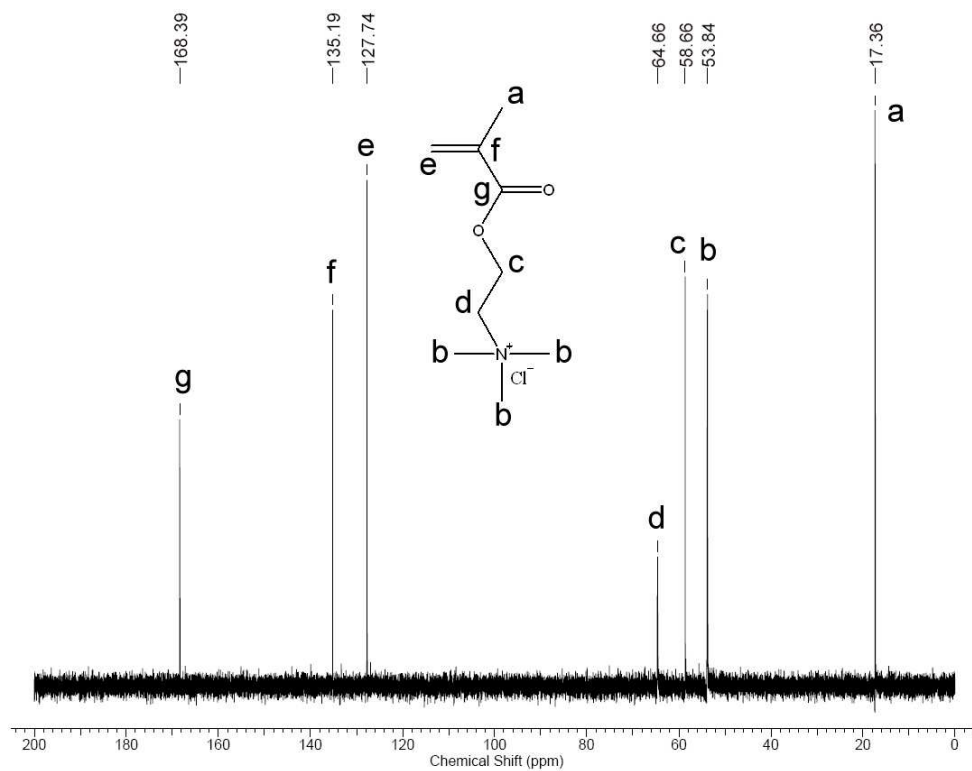


Figure S4. ^{13}C NMR spectra of trimethyl-2-methacryloxyethylammonium chloride (solvent: D_2O).

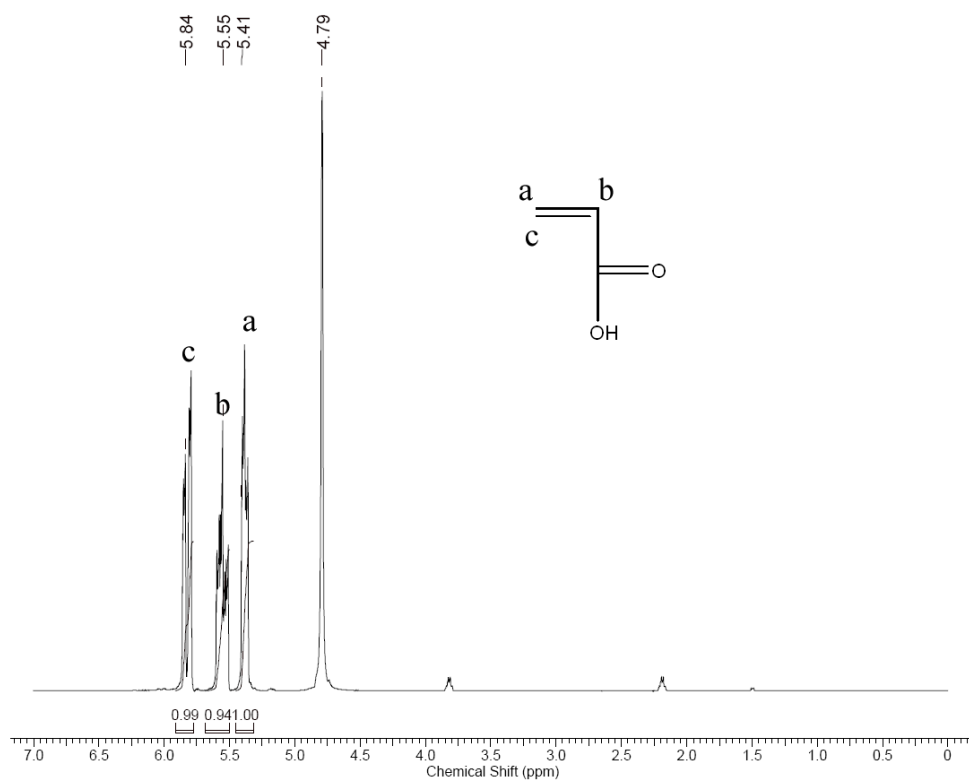


Figure S5. ¹H NMR spectra of Acrylic acid (solvent: D₂O).

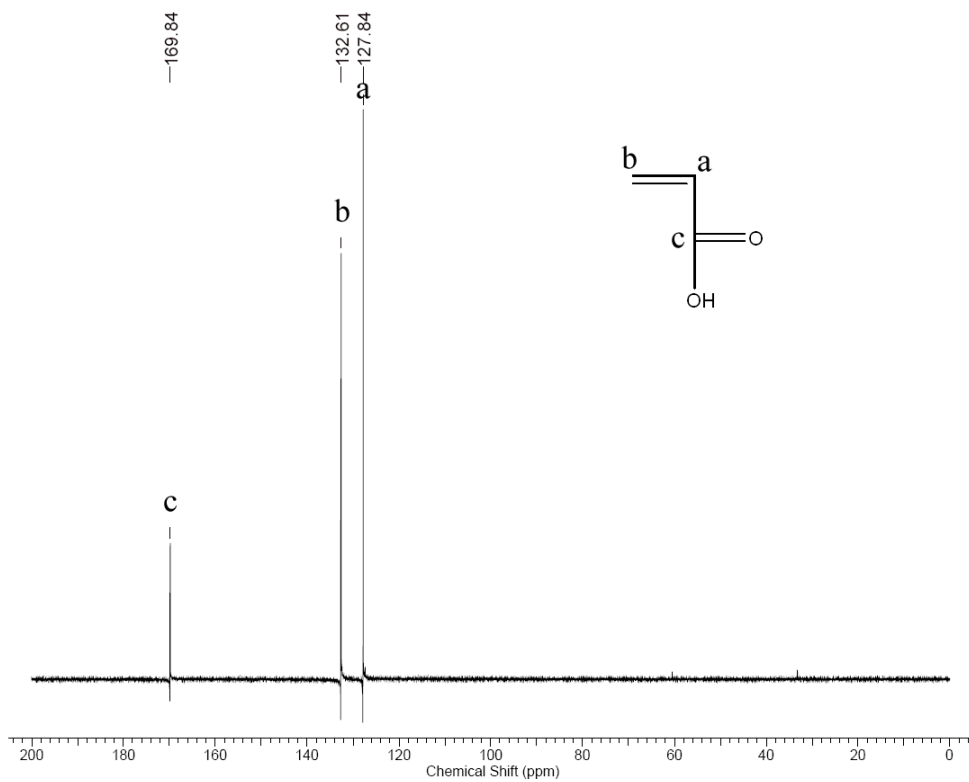


Figure S6. ¹³C NMR spectra of Acrylic acid (solvent: D₂O).

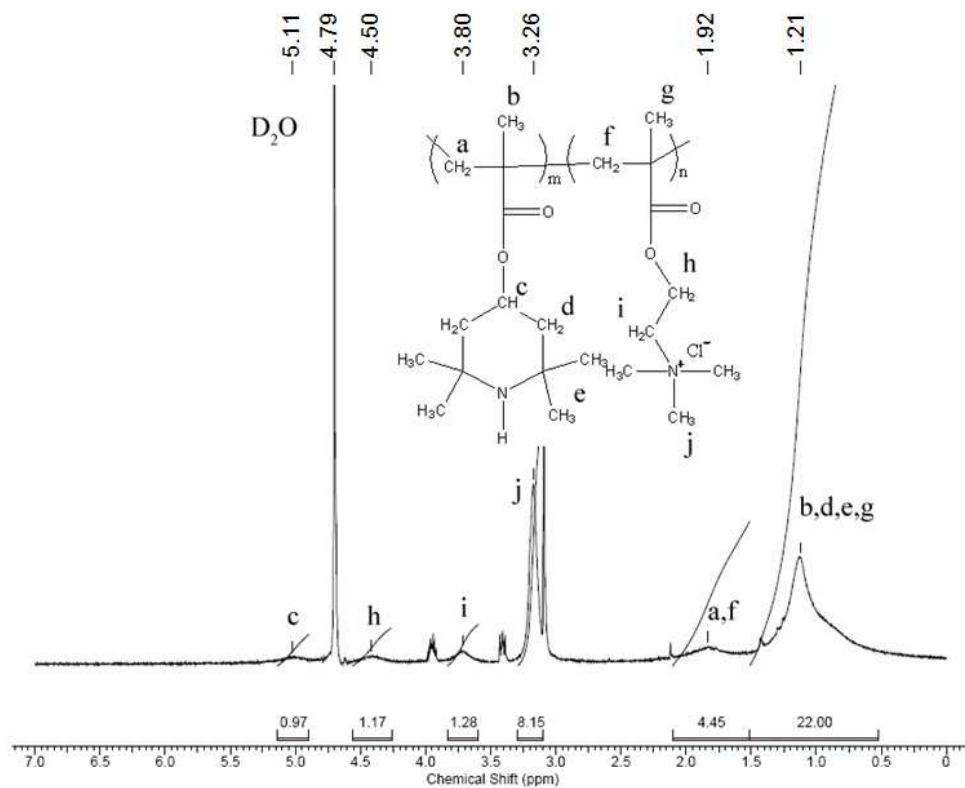


Figure S7. ¹H NMR spectra of PMPQ (solvent: D₂O).

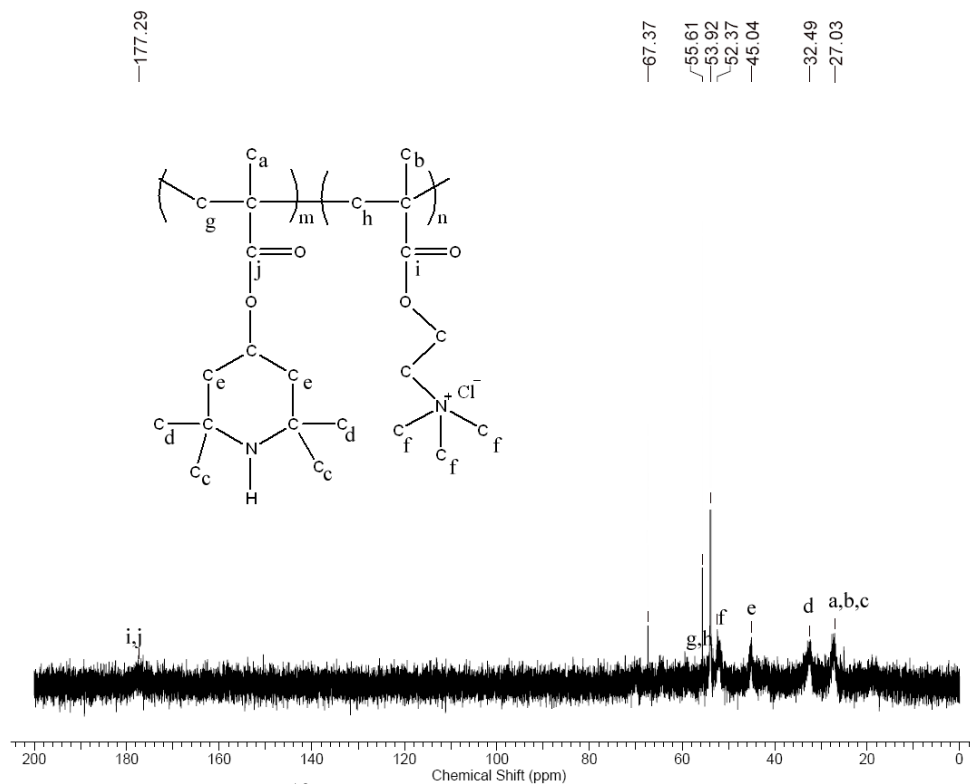


Figure S8. ¹³C NMR spectra of PMPQ (solvent: D₂O).

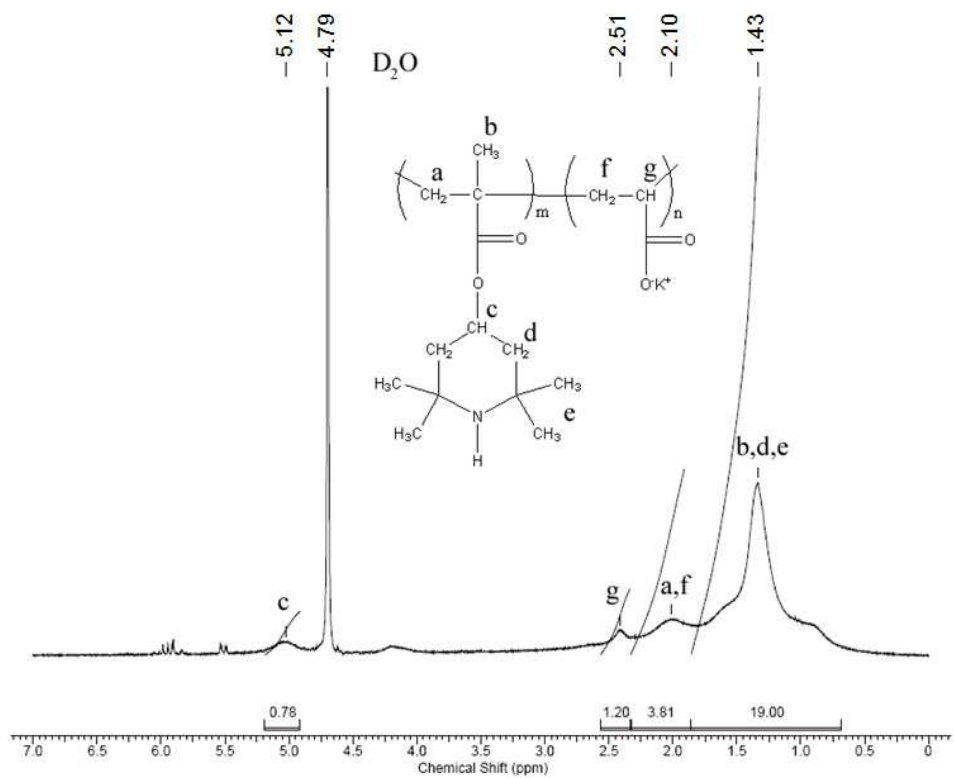


Figure S9. ¹H NMR spectra of PMPA (solvent: D₂O).

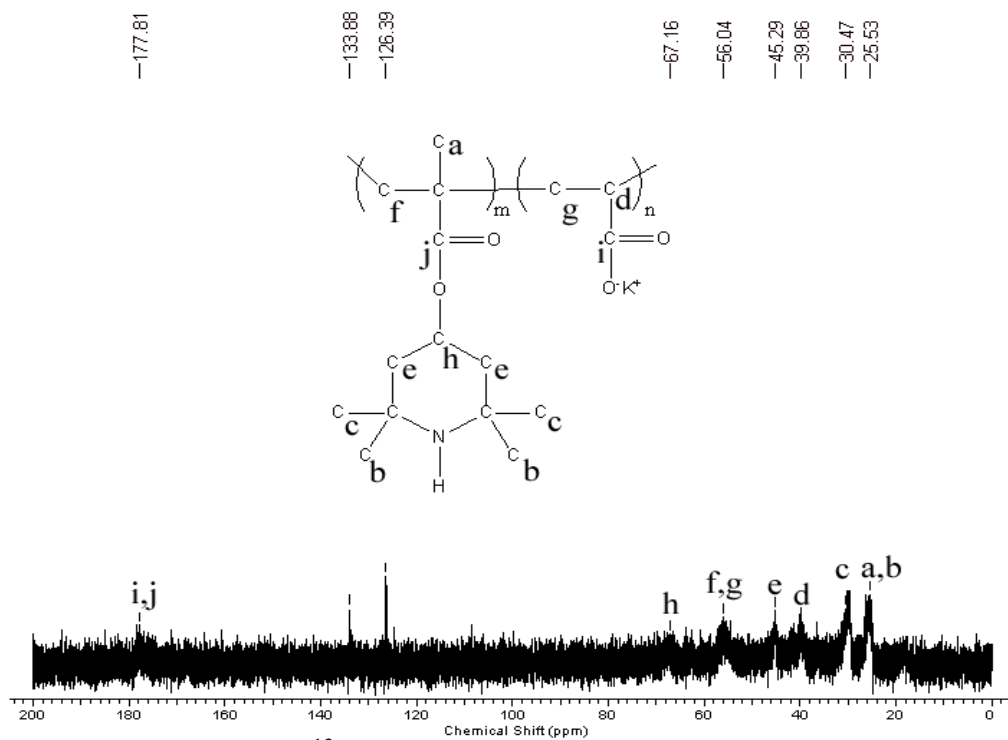


Figure S10. ¹³C NMR spectra of PMPA (solvent: D₂O).