

Supporting Information for:

Acrylamide-induced enhanced solubilization of Poly (propylene glycol) in Aqueous Solution

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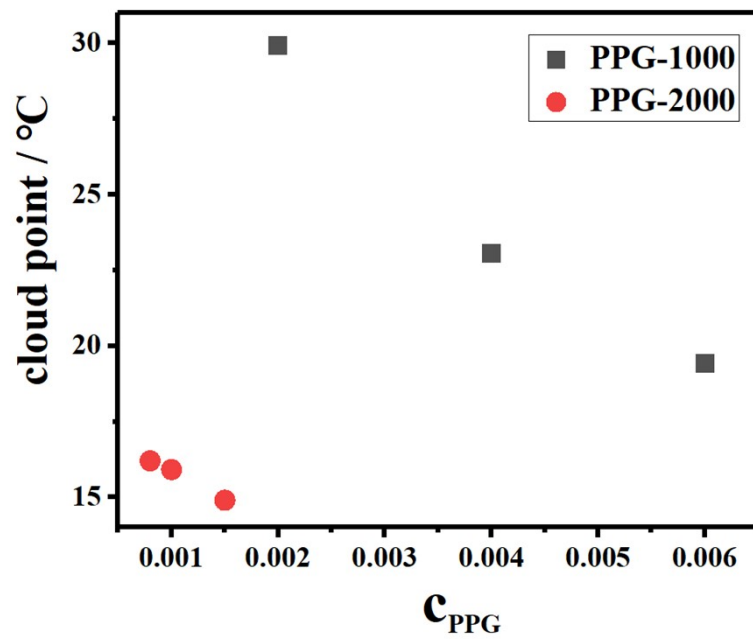


Figure S1. Partial phase diagram of PPG-1000 and PPG-2000 aqueous solution.

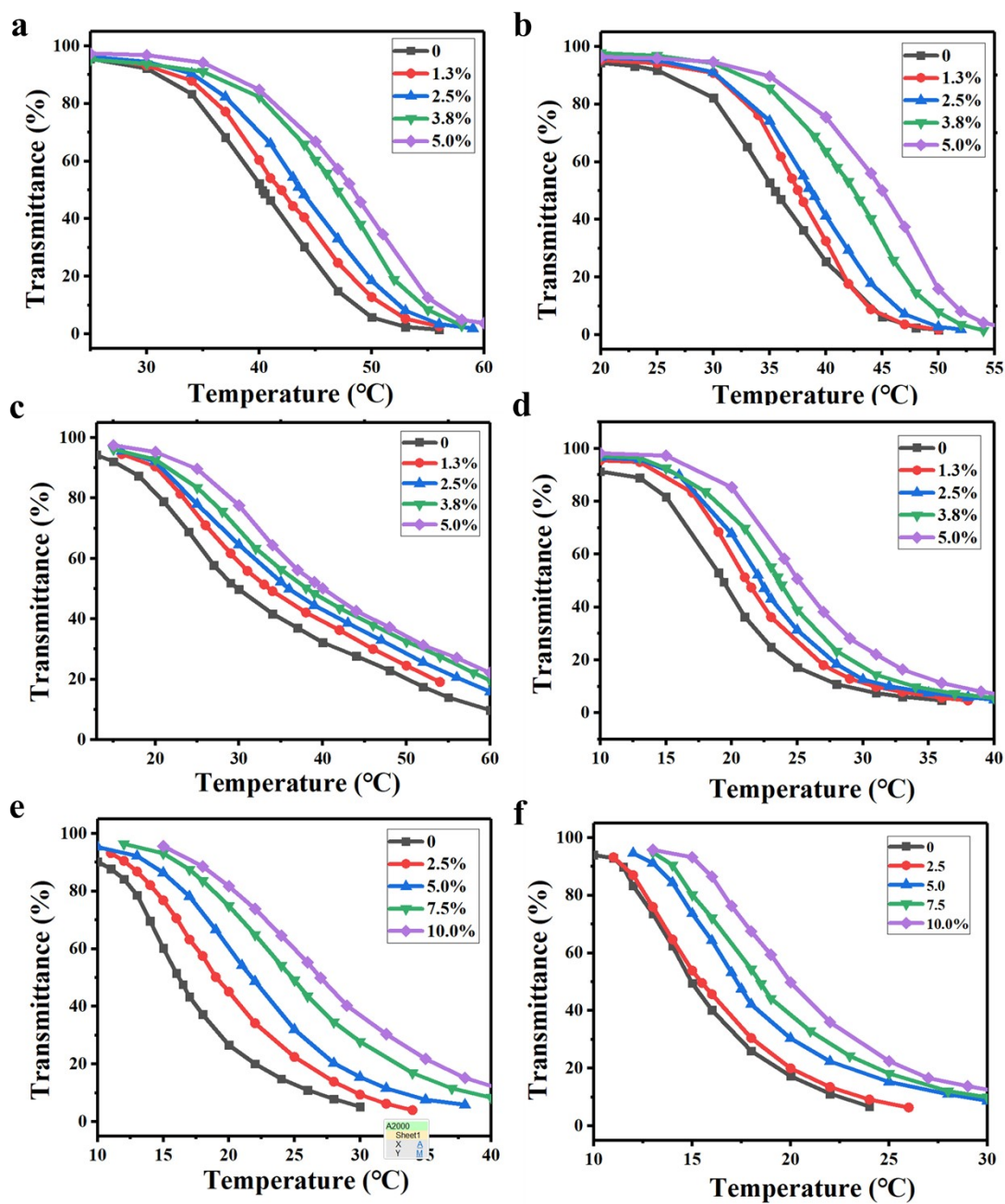


Figure S2. Temperature-dependent transmittance of PPG aqueous solution with different amounts of AM. (a) PPG-400, $c_{\text{PPG}}=0.03$, (b) PPG-400, $c_{\text{PPG}}=0.05$, (c) PPG-1000, $c_{\text{PPG}}=0.002$, (d) PPG-1000, $c_{\text{PPG}}=0.006$, (e) PPG-2000, $c_{\text{PPG}}=0.0008$, (f) PPG-2000, $c_{\text{PPG}}=0.0015$.

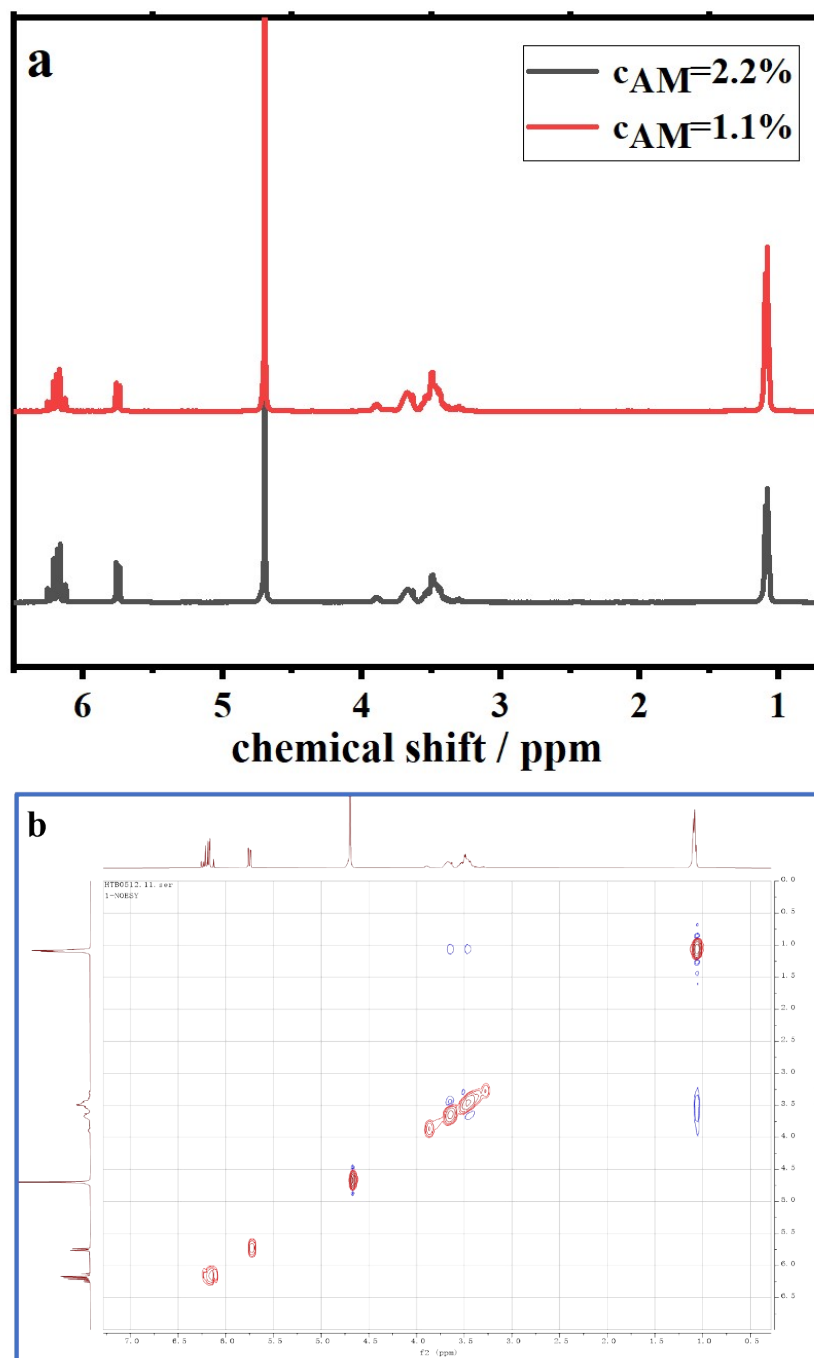


Figure S3. (a) Comparison in ^1H NMR spectra of PPG with different amounts of AM in D_2O and (b) 2D NOESY Spectrum for PPG-600/AM in D_2O ($c_{\text{PPG-600}}=0.03$, $c_{\text{AM}}=1.1\%$).

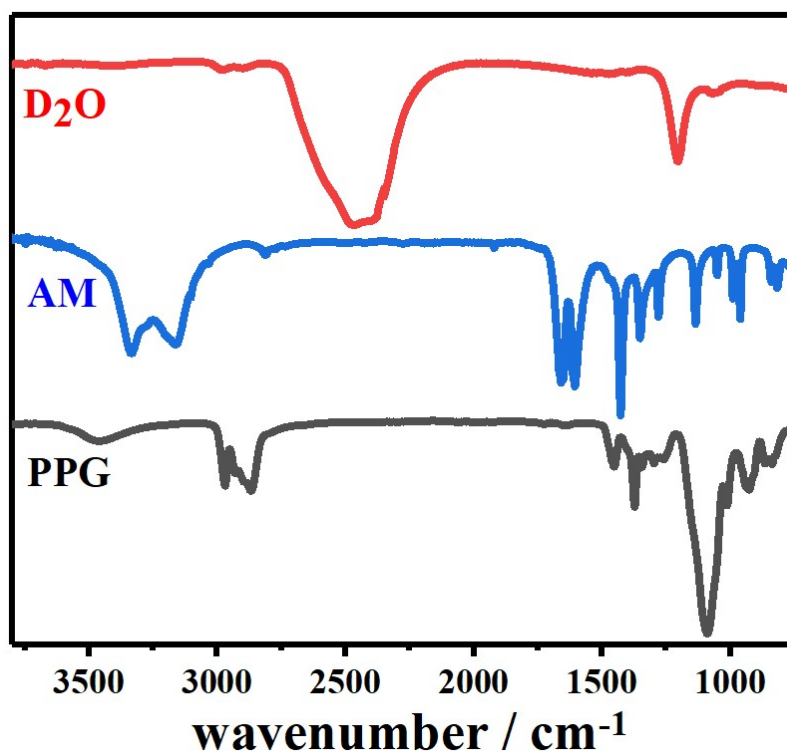


Figure S4. Comparison in FTIR spectra of D₂O, Am and PPG.