Synthesis of Single Chain Polystyrene Nanoparticles via Reversible Ionic Interactions

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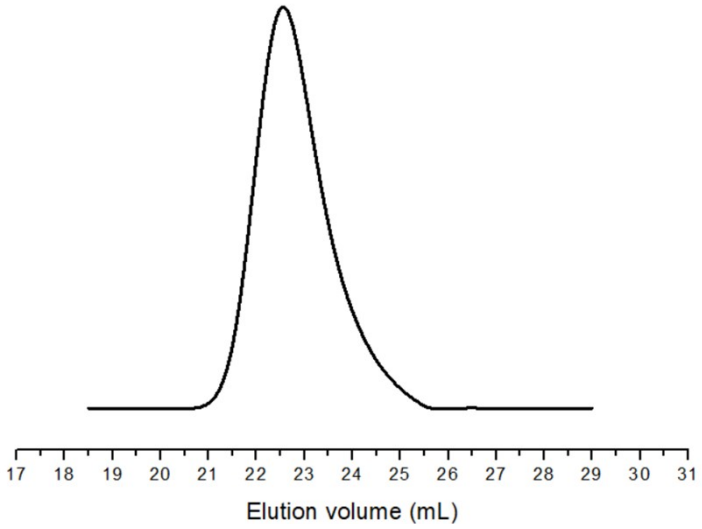

Figure S1. Size Exclusion Chromatography eluogram of the P3 polymer sample at 40 °C in $CHCl_3$.

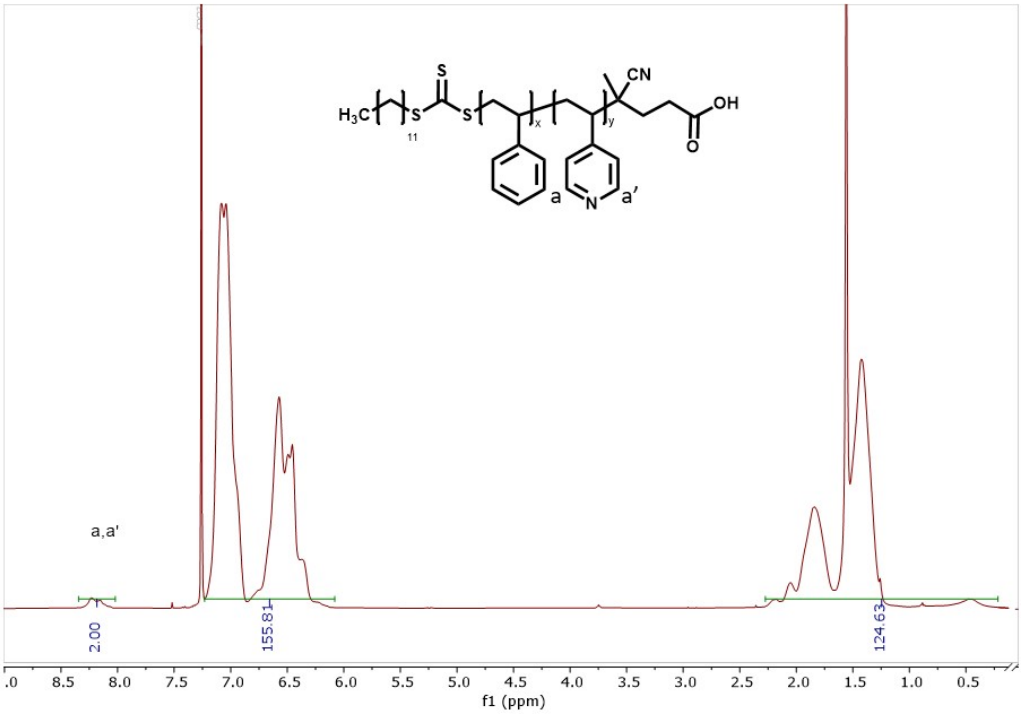

Figure S2. ^{1}H-NMR spectrum of sample P2 at 25 ^{o}C in $CDCl_3$.

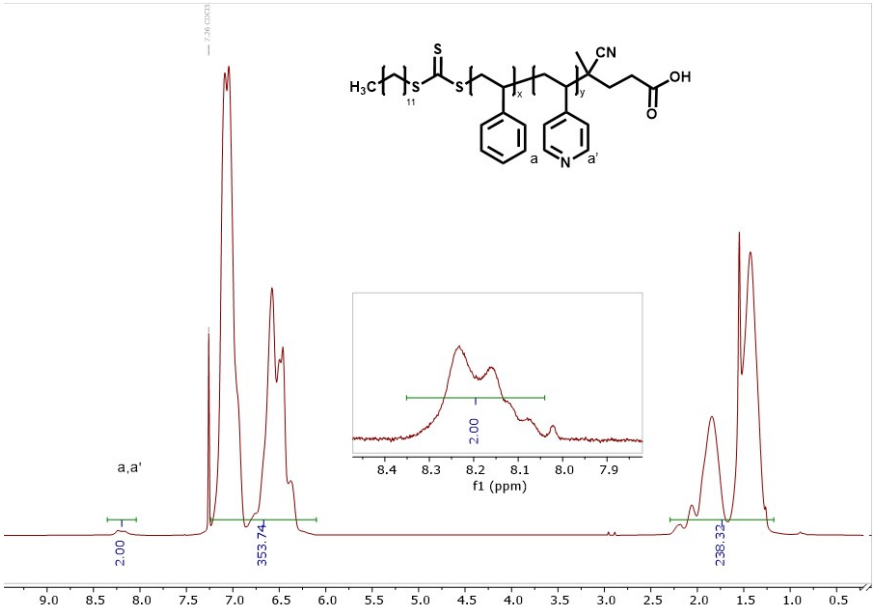

Figure S3. [1]H-NMR spectrum of P1 sample at 25 [o]C in $CDCl_3$.

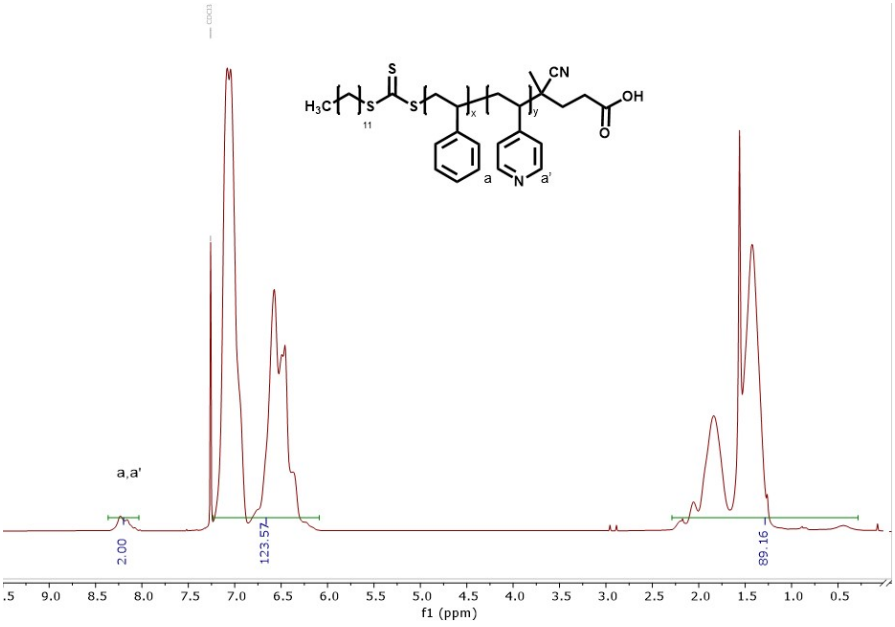

Figure S4. [1]H-NMR spectrum of P3 sample at 25 [o]C in $CDCl_3$.

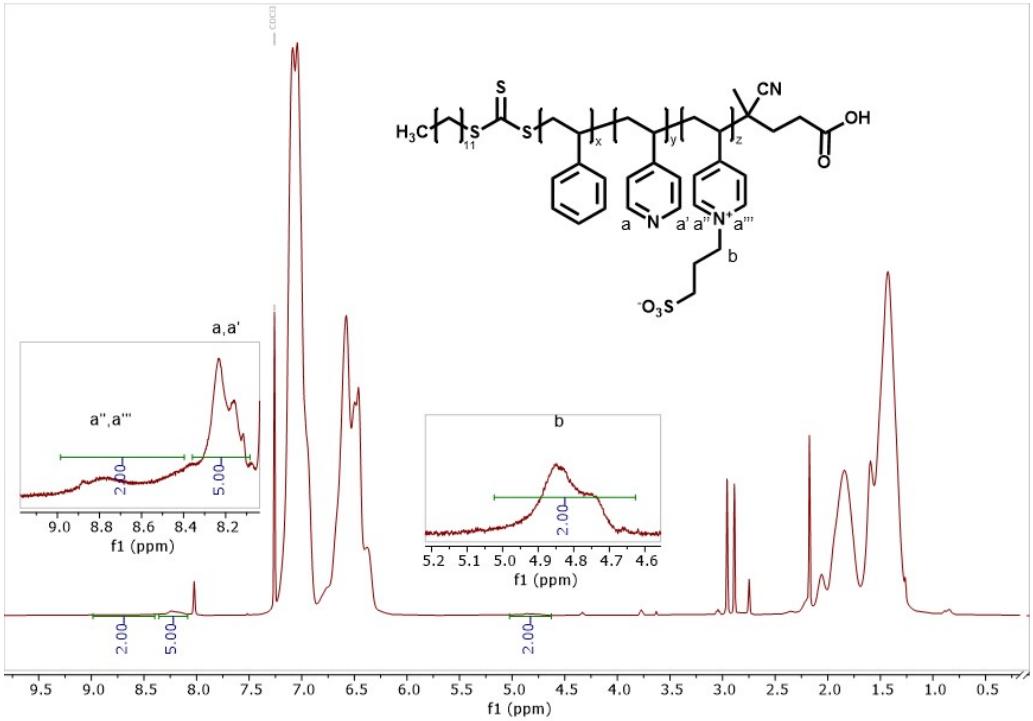

Figure S5. ^{1}H-NMR spectrum of $P1_{zw}$ sample at 25 ^{o}C in $CDCl_3$.

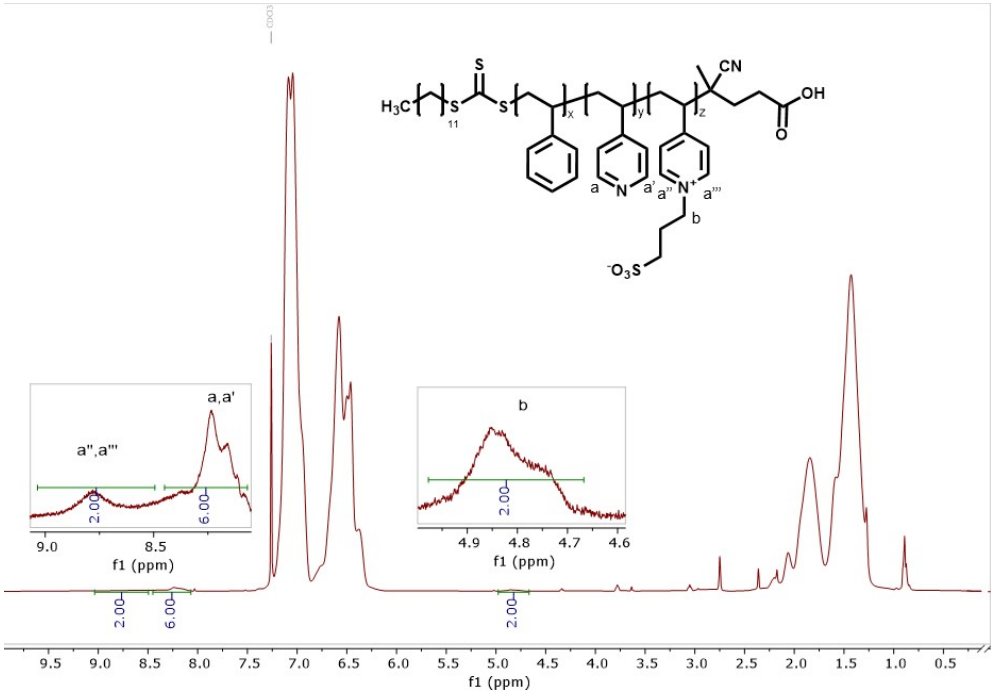

Figure S6. ^{1}H-NMR spectrum of $P3_{zw}$ sample at 25 ^{o}C in $CDCl_3$.

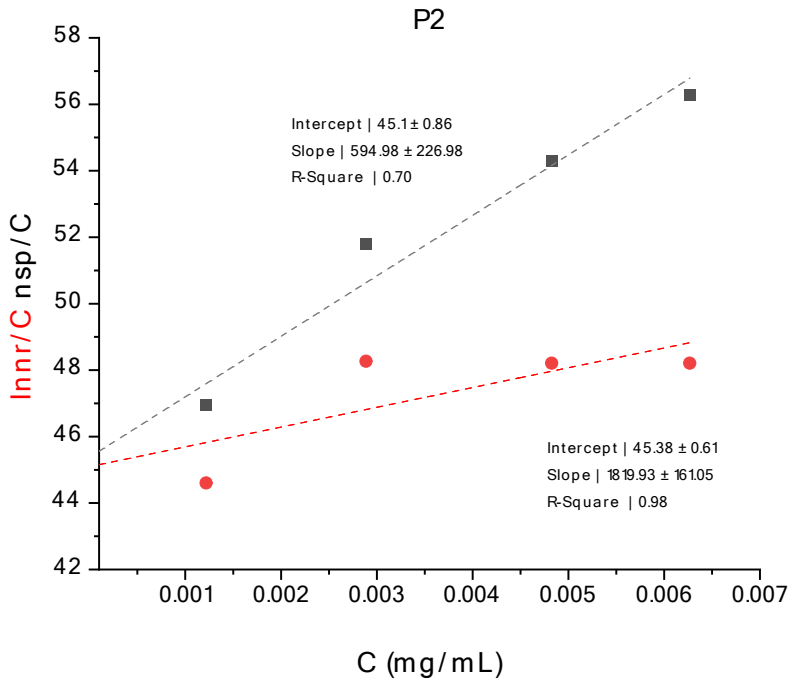

Figure S7. Viscosity plots of P2 copolymer at 25 °C in toluene; (•) Huggins plot; (•) Kraemer plot.

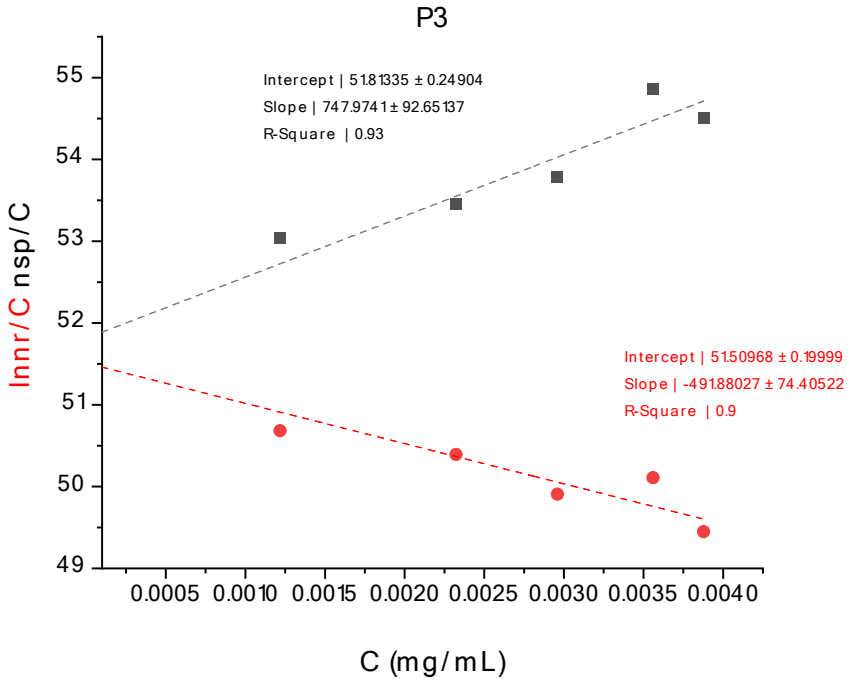

Figure S8. Viscosity plots of P3 copolymer at 25 °C in toluene; (•) Huggins plot; (•) Kraemer plot.

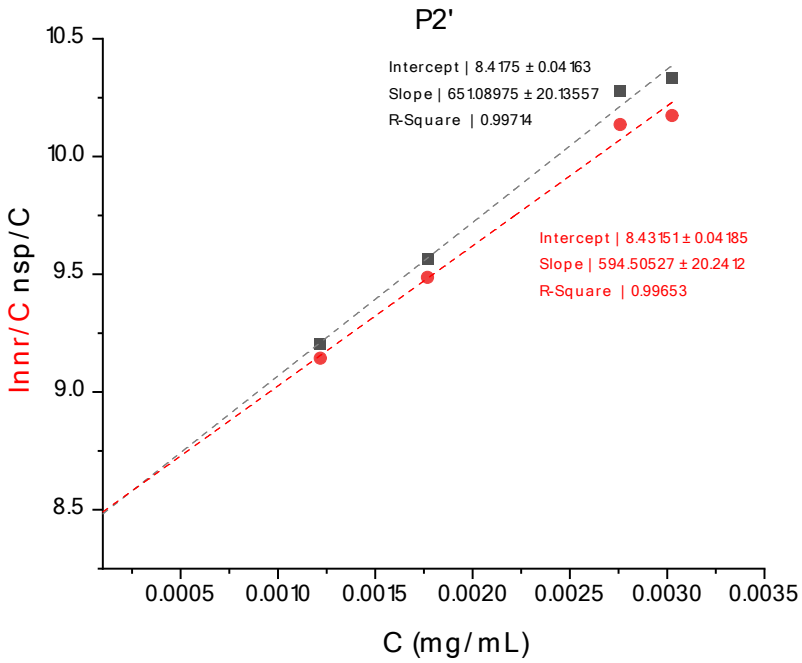

Figure S9. Viscosity plots of P2' single-chain nanoparticle at 25 °C in toluene; (•) Huggins plot; (•) Kraemer plot.

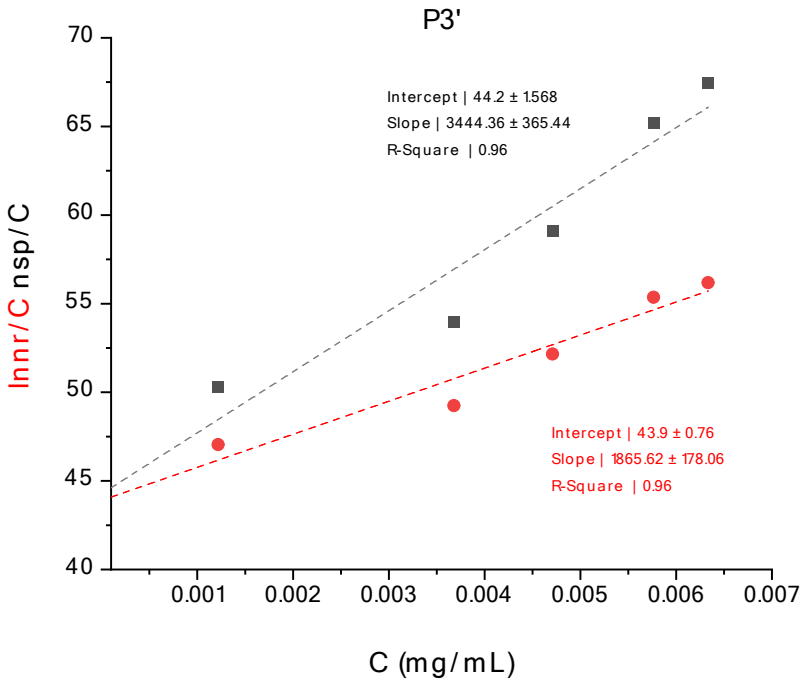

Figure S10. Viscosity plots of P3' single-chain nanoparticle at 25 °C in toluene; (•) Huggins plot; (•) Kraemer plot.

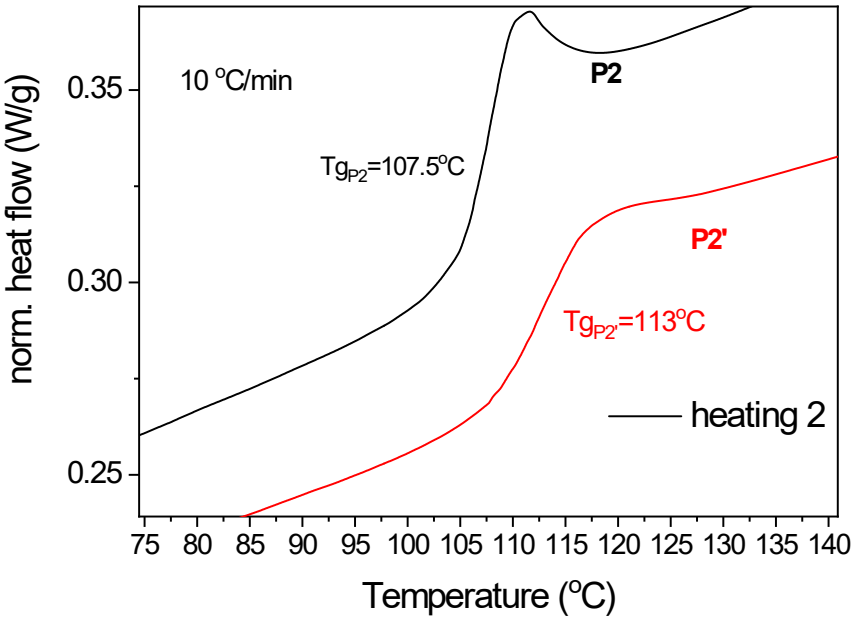

Figure S11. DSC heating thermograms for the linear random copolymer P(S-r-4VP) (P2), and for the single-chain polymer nanoparticle P2´. The shown results correspond to the second measurement scan (heating 2), namely, after erasing of the thermal history, whereas the heat flow has been normalized to the sample mass.