

Soluble Poly(amide-imide)s from Diamide-Diamine with Trifluoromethyl Groups

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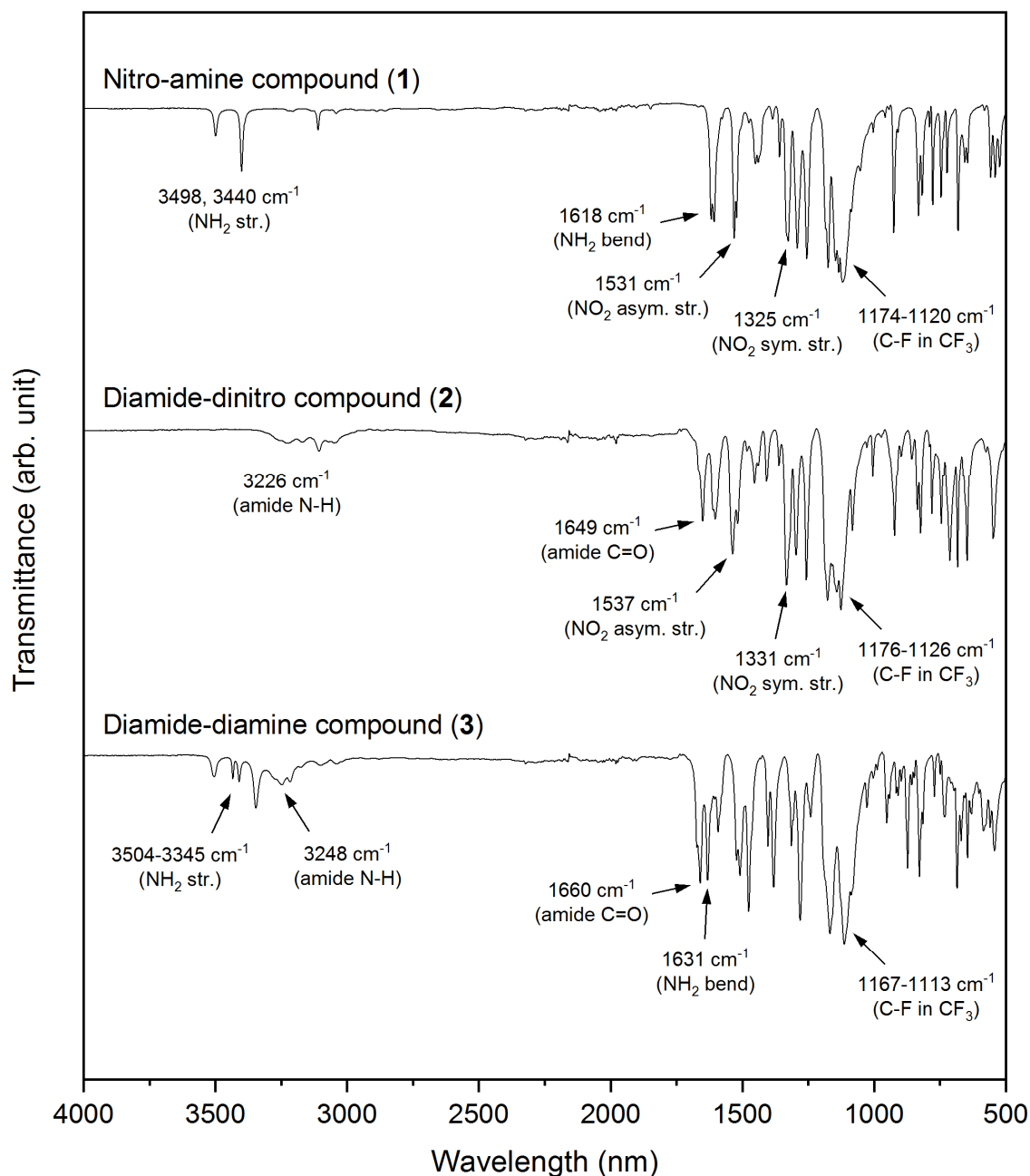


Figure S1. FT-IR spectra of nitro-amine (1), diamide-dinitro (2), diamide-diamine (3) compounds.

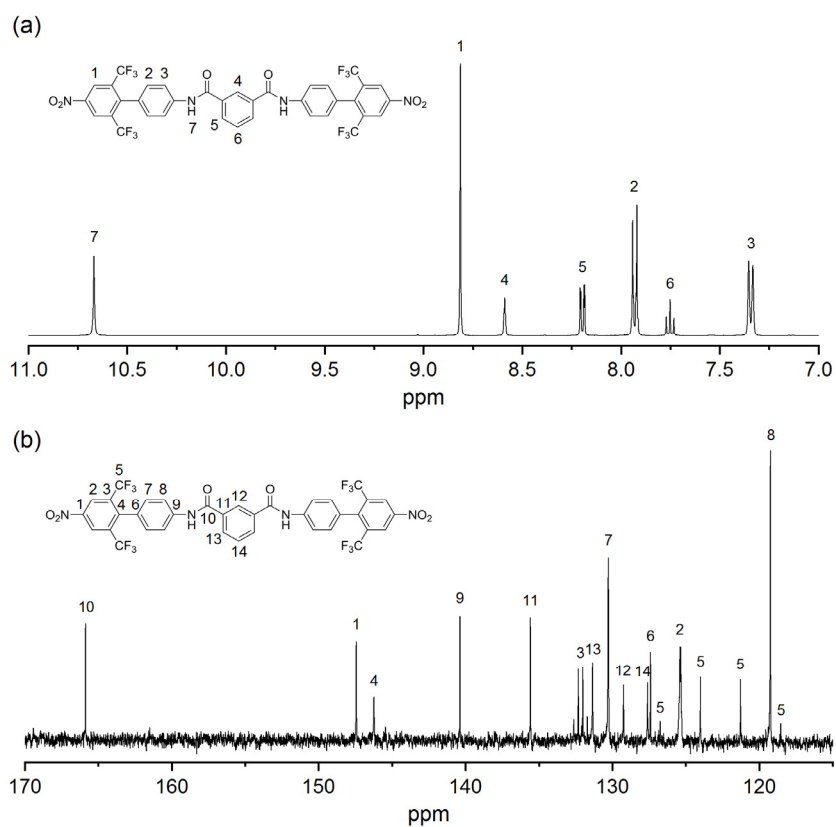


Figure S2. (a) ^1H and (b) ^{13}C NMR spectra of diamide-dinitro compound **2** ($\text{DMSO-}d_6$, 25°C).

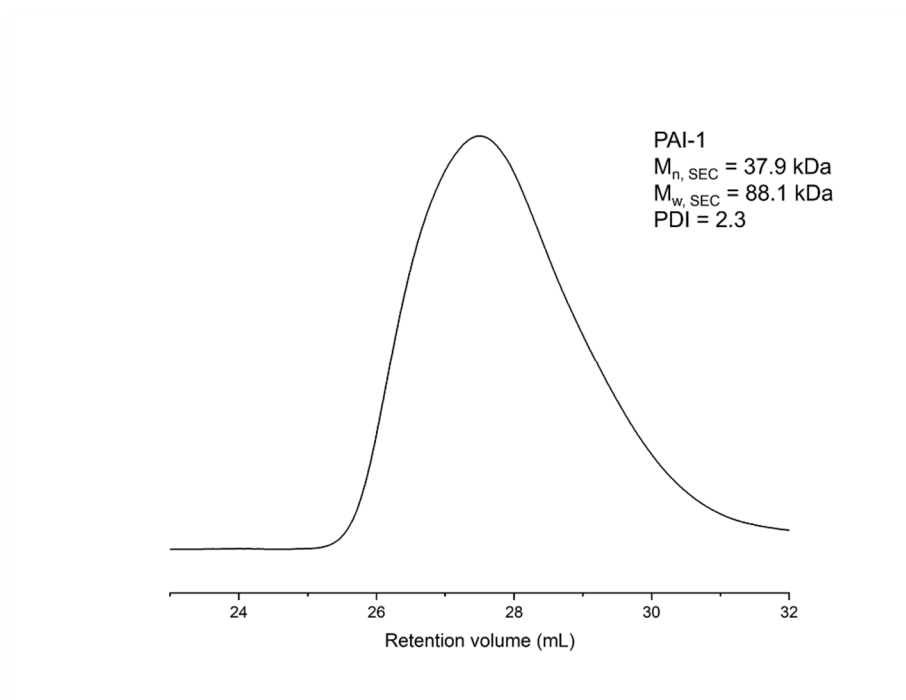


Figure S3. GPC diagram of **PAI-1**.

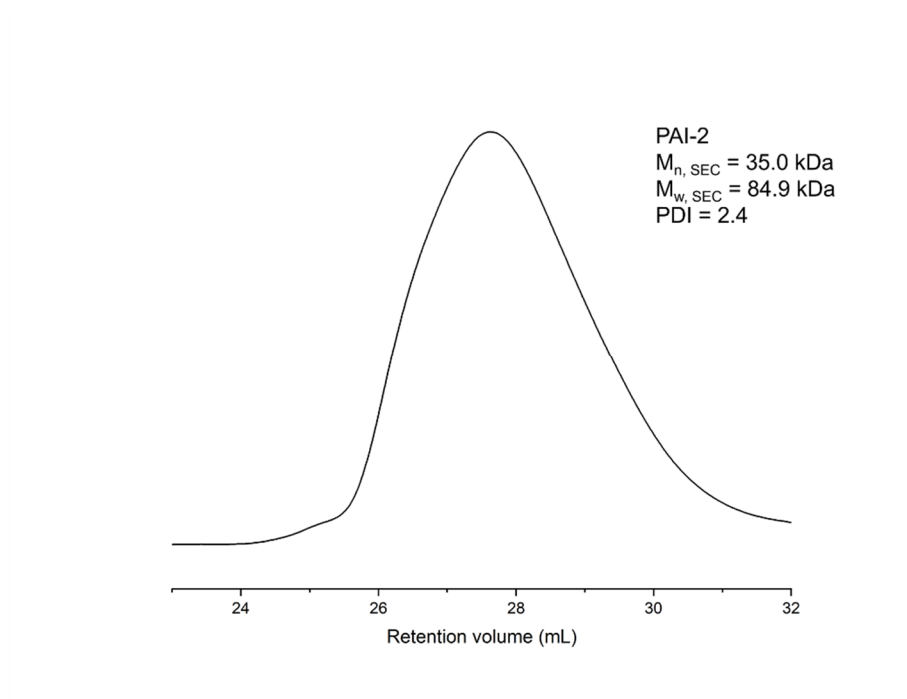


Figure S4. GPC diagram of PAI-2.



Figure S5. Free standing films of PAI-1 and PAI-2.

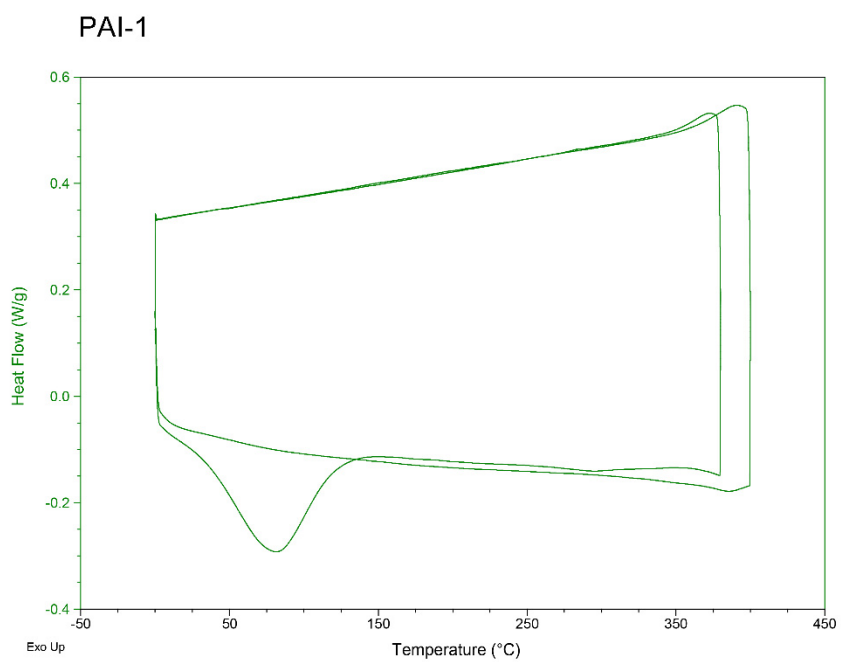


Figure S6. DSC curves of **PAI-1**.

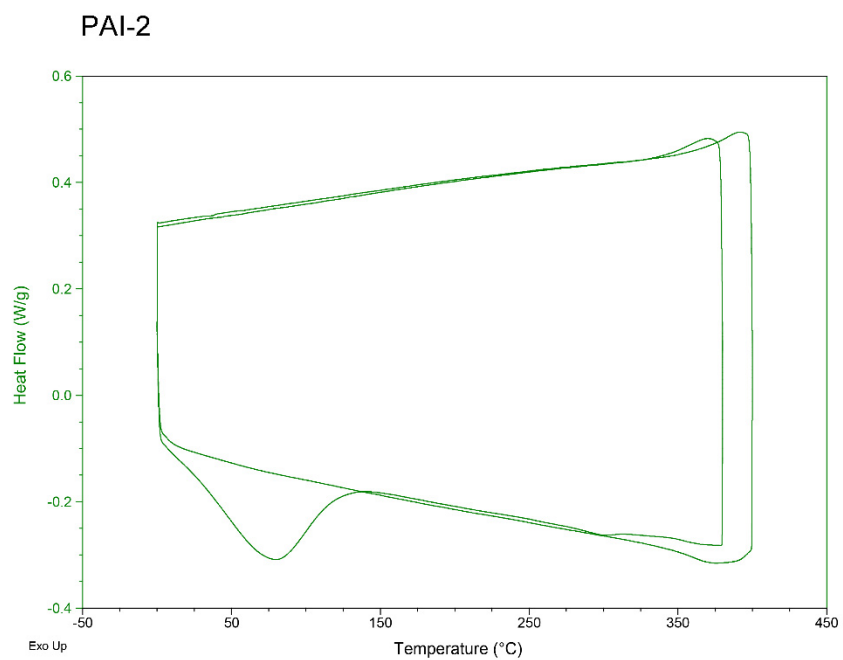


Figure S7. DSC curves of **PAI-2**.

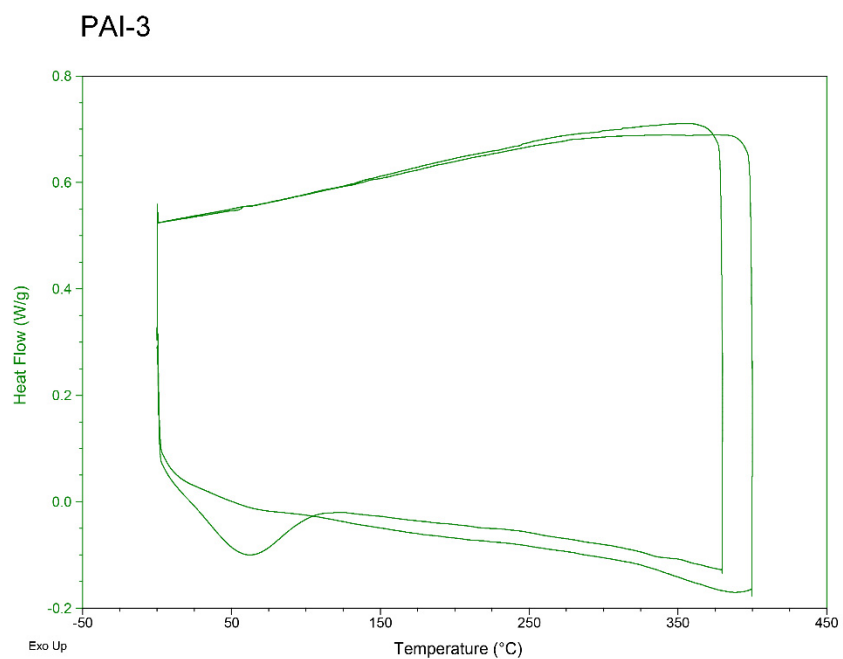


Figure S8. DSC curves of **PAI-3**.

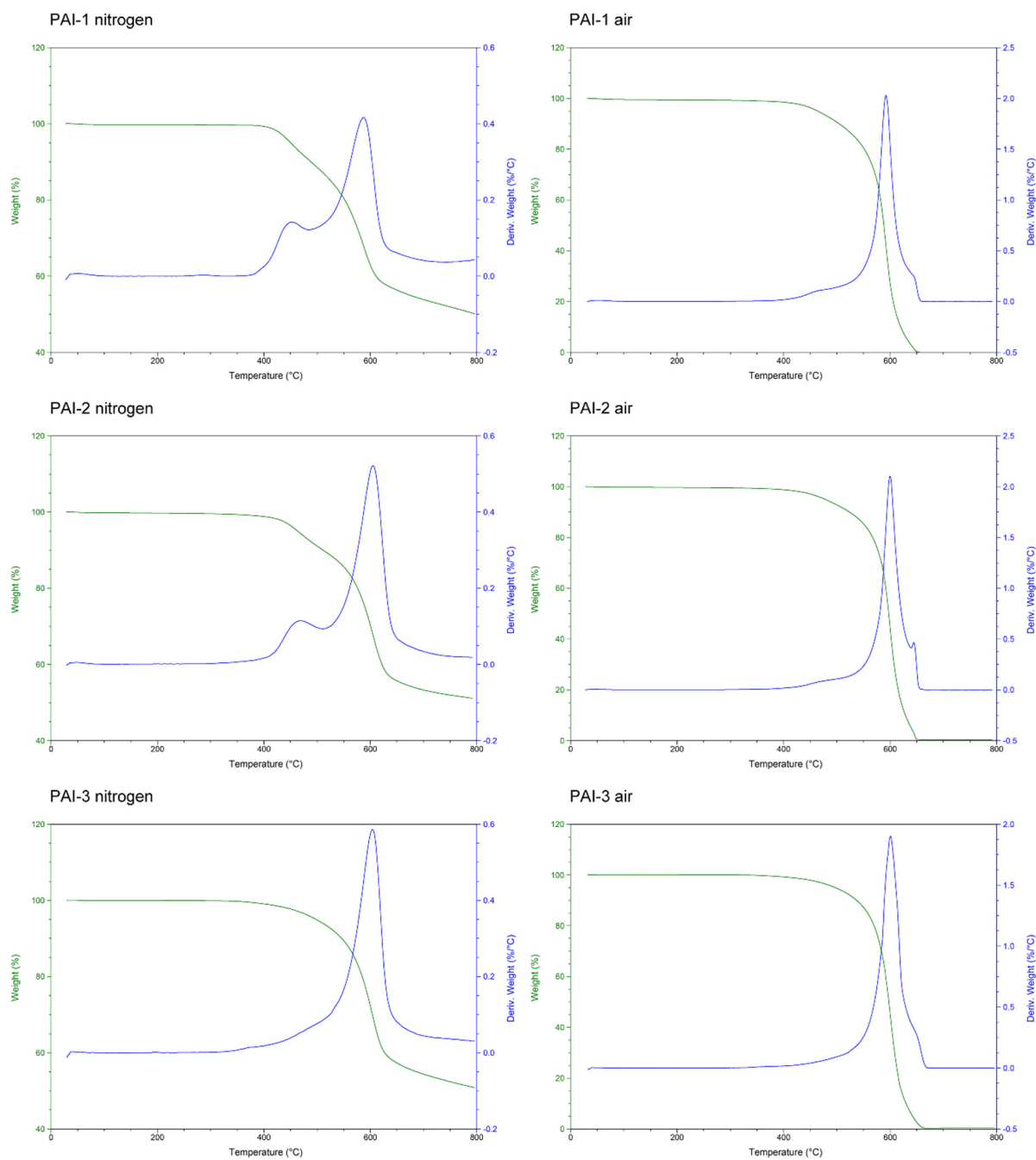


Figure S9. TGA curves of PAI-1, PAI-2 and PAI-3.

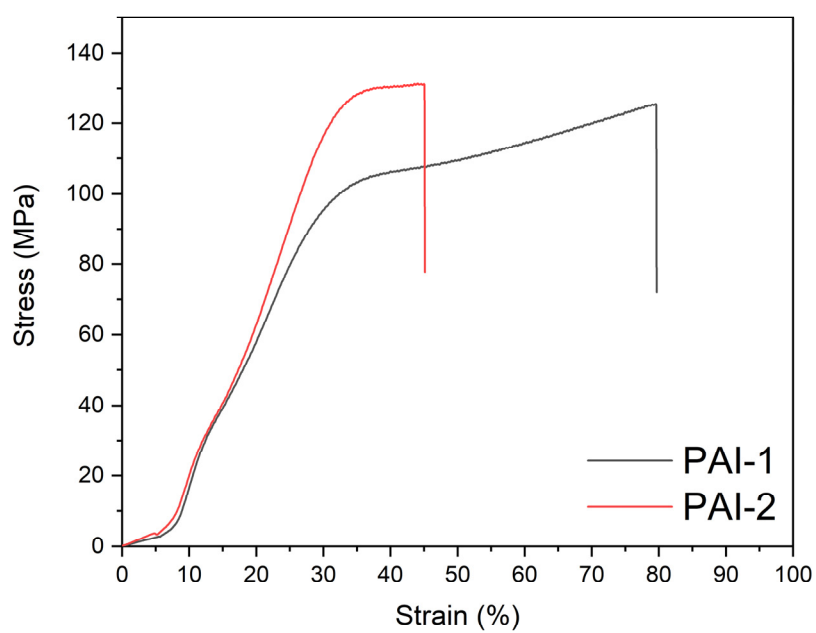


Figure S10. Mechanical properties of PAIs.

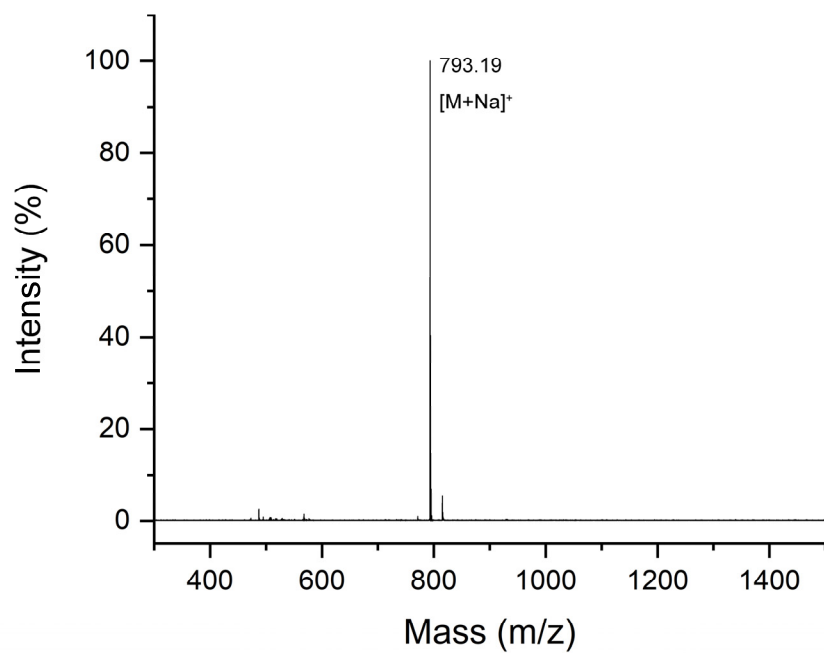


Figure S11. MALDI-TOF of diamide-diamine monomer synthesized in this study (3).