



Article

Synthesis, Characterization and DNA-Binding Affinity of a New Zinc(II) Bis(5-methoxy-indol-3-yl)propane-1,3-dione Complex

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Supplementary Online Materials

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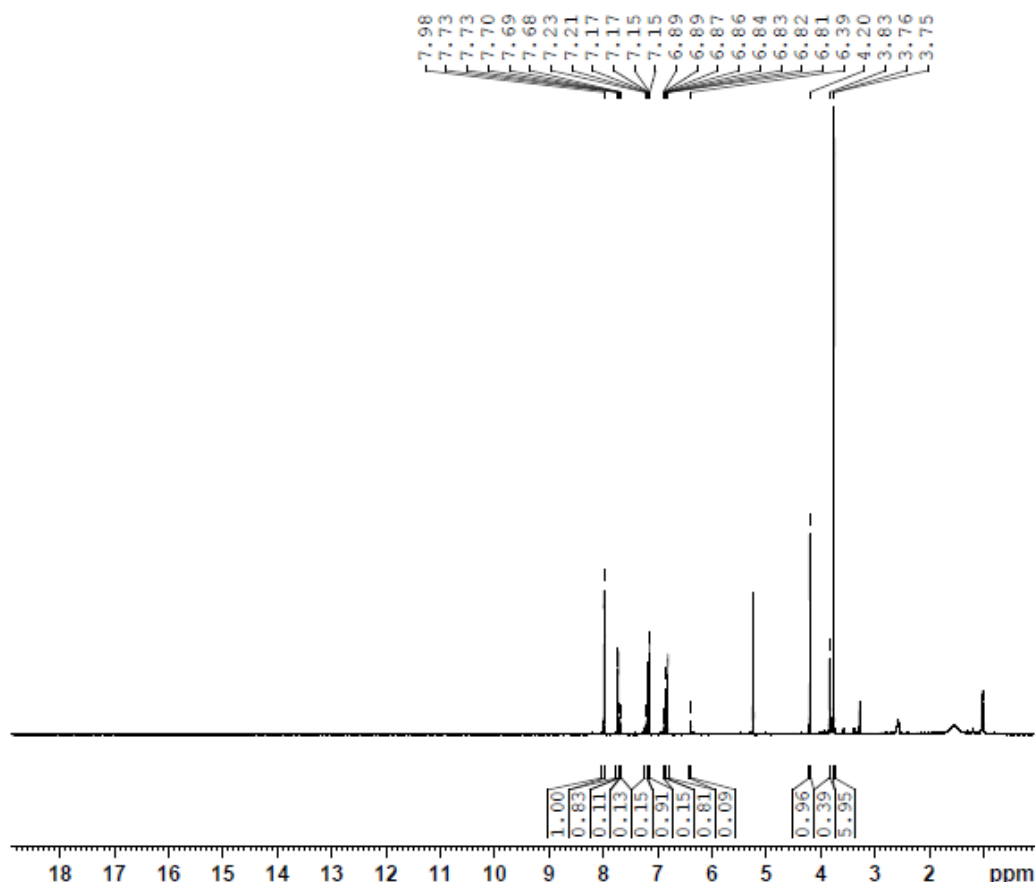


Figure S1. ¹H-NMR spectrum of 1.

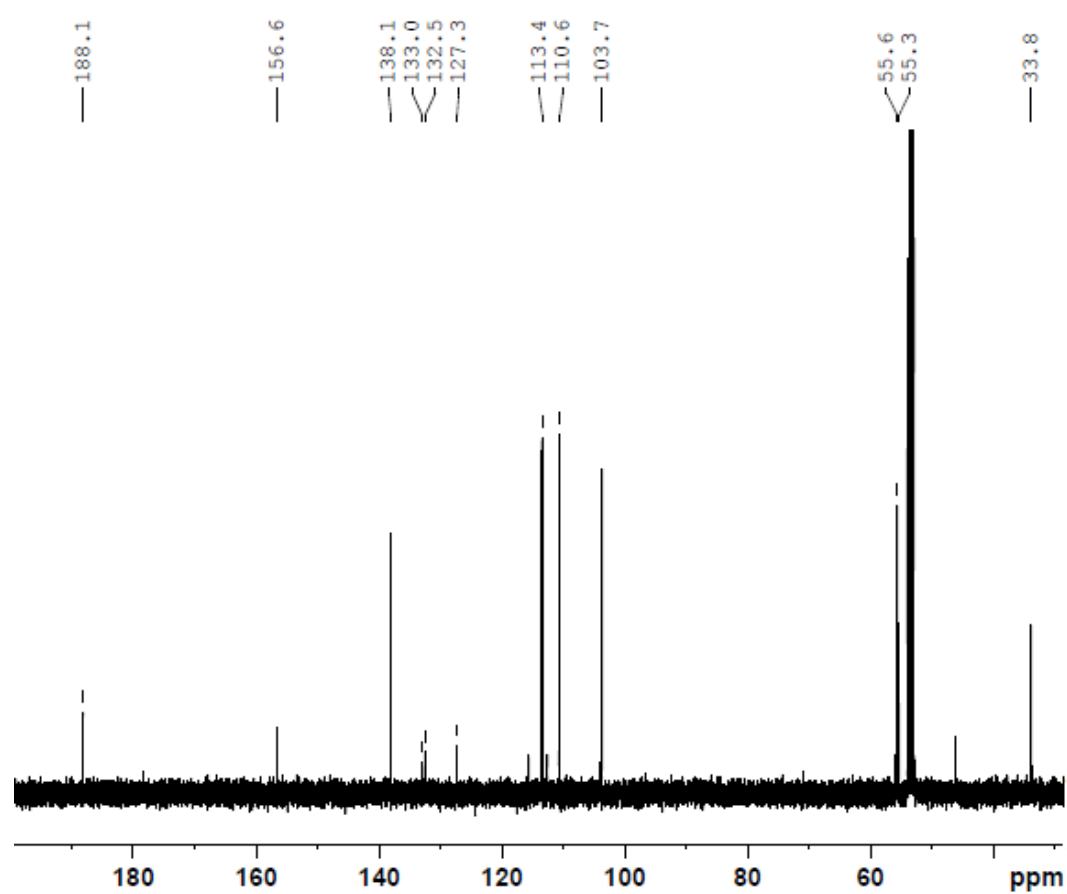


Figure S2. ^{13}C -NMR spectrum of 1.

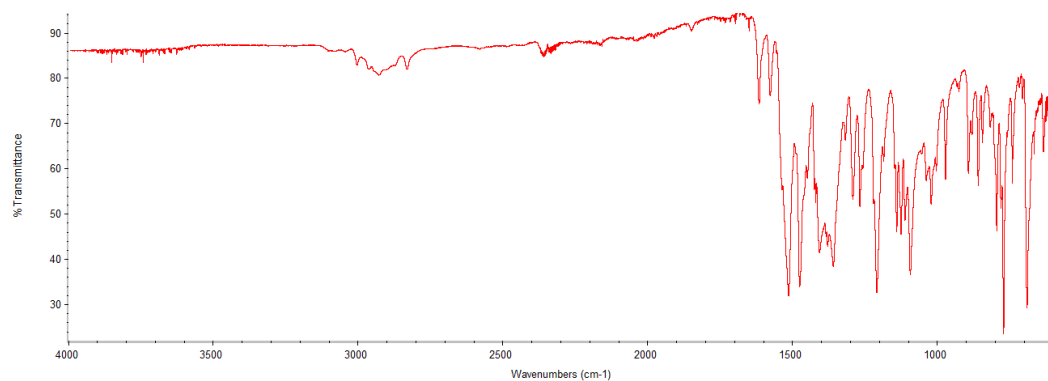


Figure S3. IR absorption spectrum of **1** in the 600 cm⁻¹ – 4000 cm⁻¹ spectral region.

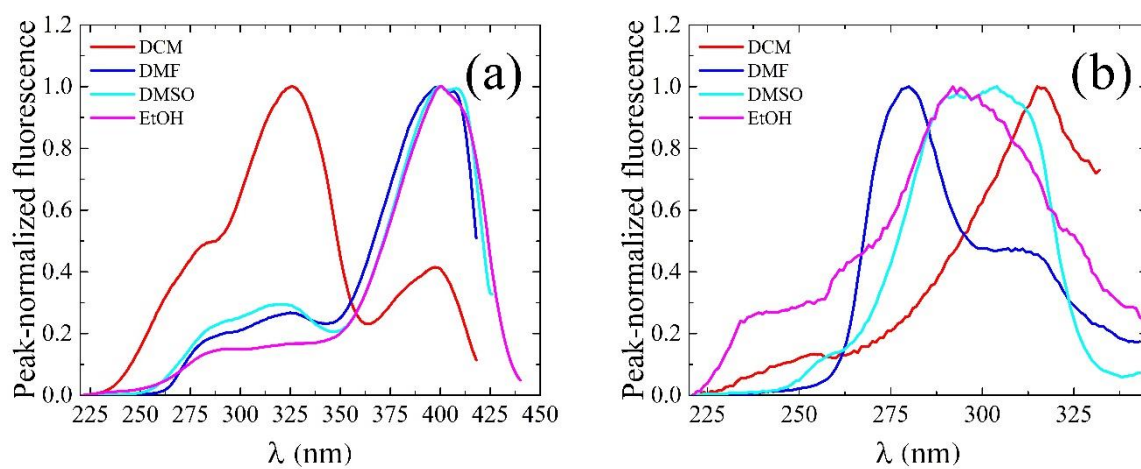


Figure S4. Fluorescence excitation spectral line-shapes of **1** in different solvents with fluorescence detection at a) the enol emission peak and b) 350 nm (in the region of the diketo-emission shoulder).

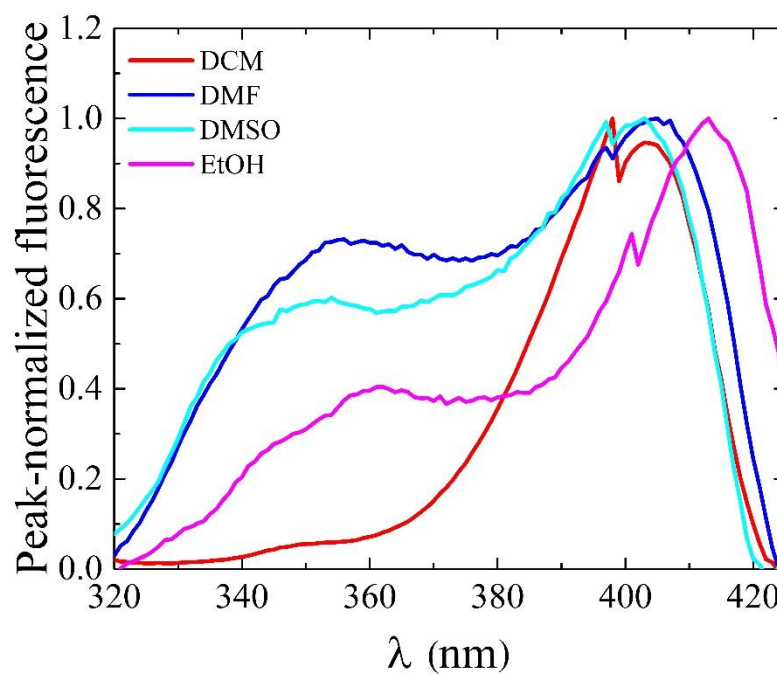


Figure S5. Reconstructed emission spectra of the diketo tautomers of **1**. With the exception of dichloromethane, the spectra exhibit two well separated peaks. This might indicate the coexistence of cis- and trans-diketo tautomers in polar environments.

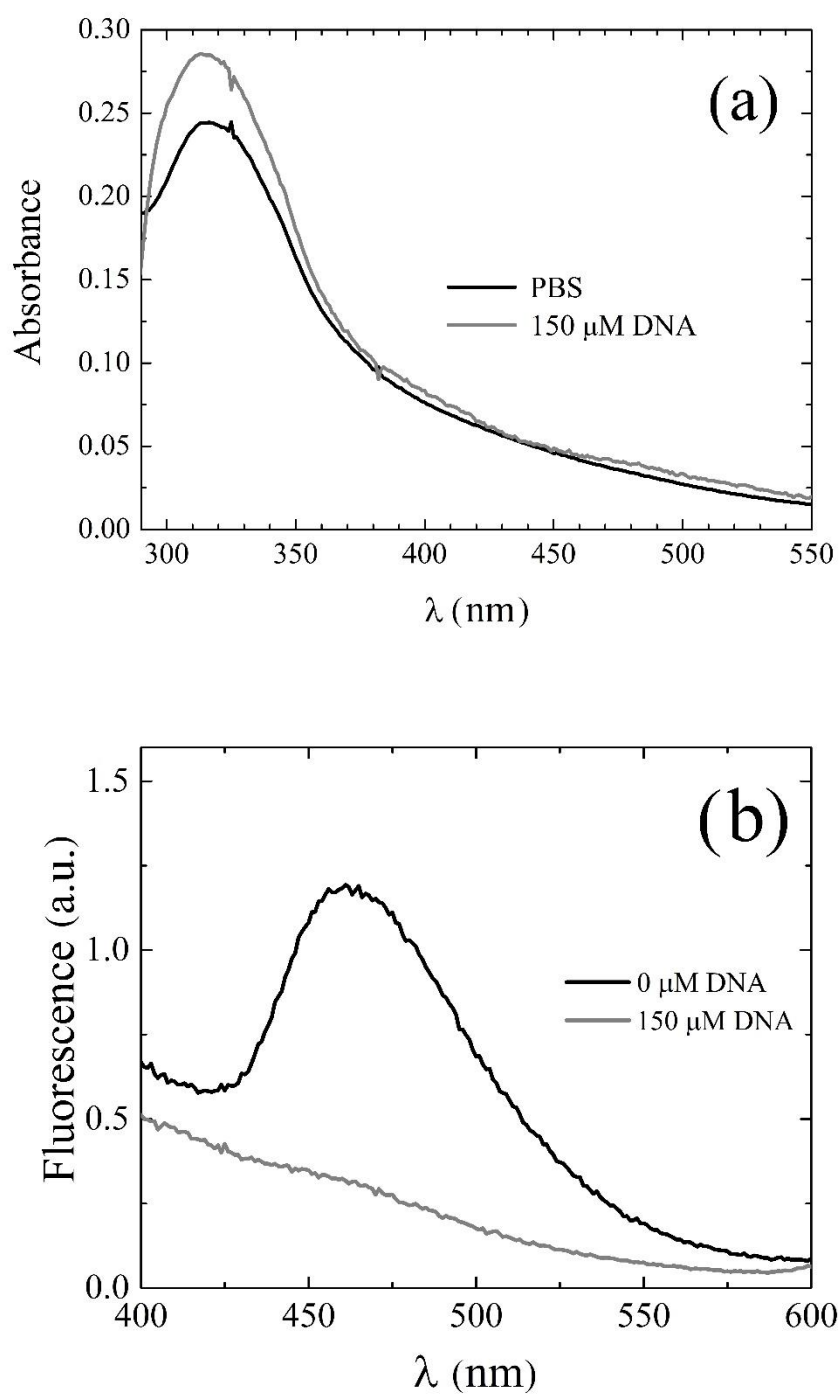


Figure S6. a) Absorption and b) emission spectra of **1** in aqueous environment (PBS) in the absence (black line) and presence (gray line) of DNA. The compound was preliminarily solubilized in DMF. Fluorescence was elicited upon excitation at 320 nm.

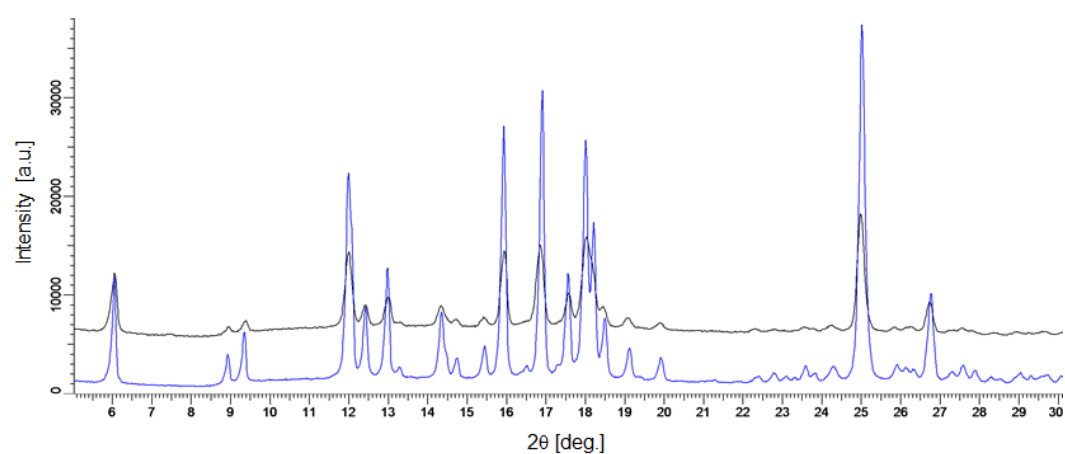


Figure S7. Low-to-medium angle portion of the powder X-ray diffraction pattern of two batches of complex **1** at comparison.

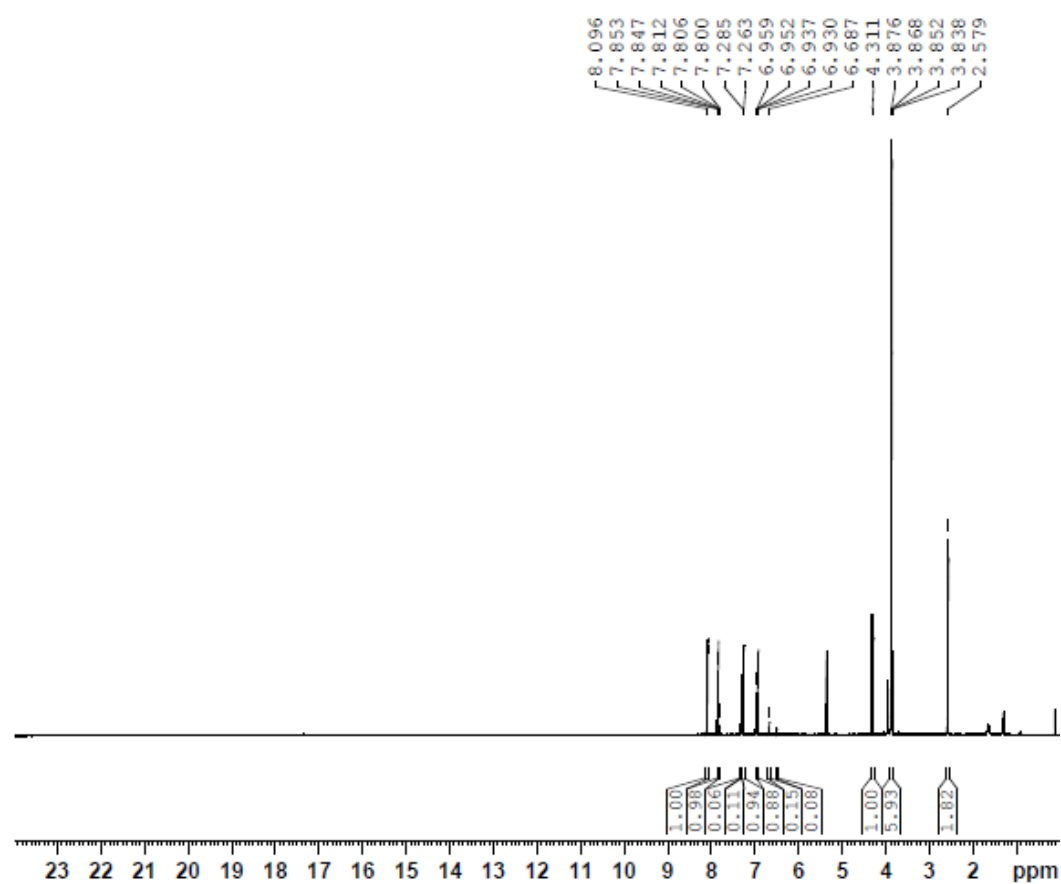


Figure S8. ¹H-NMR spectrum of 2.

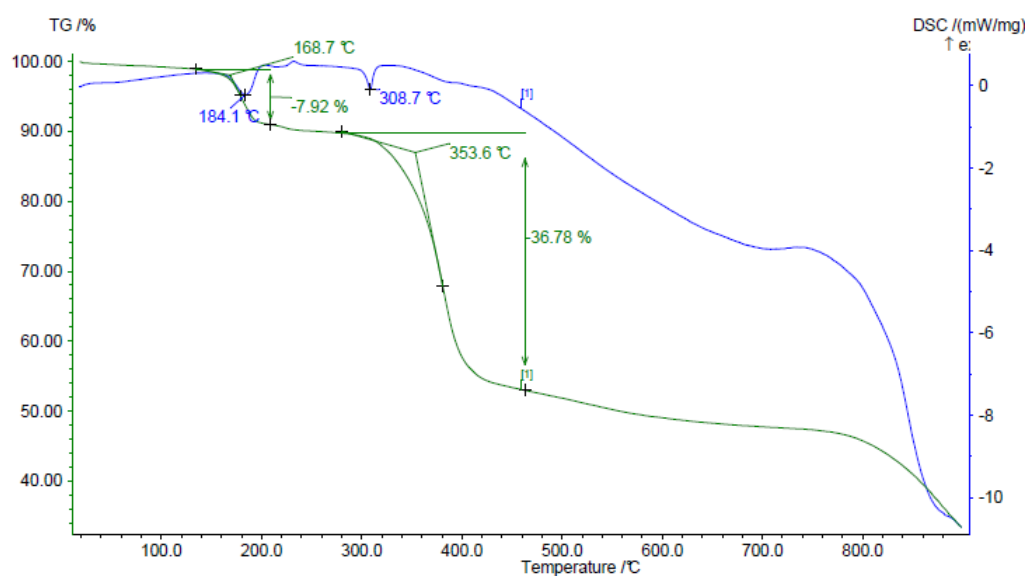


Figure S9. DSC (blue line) and TGA (green) traces of 2.

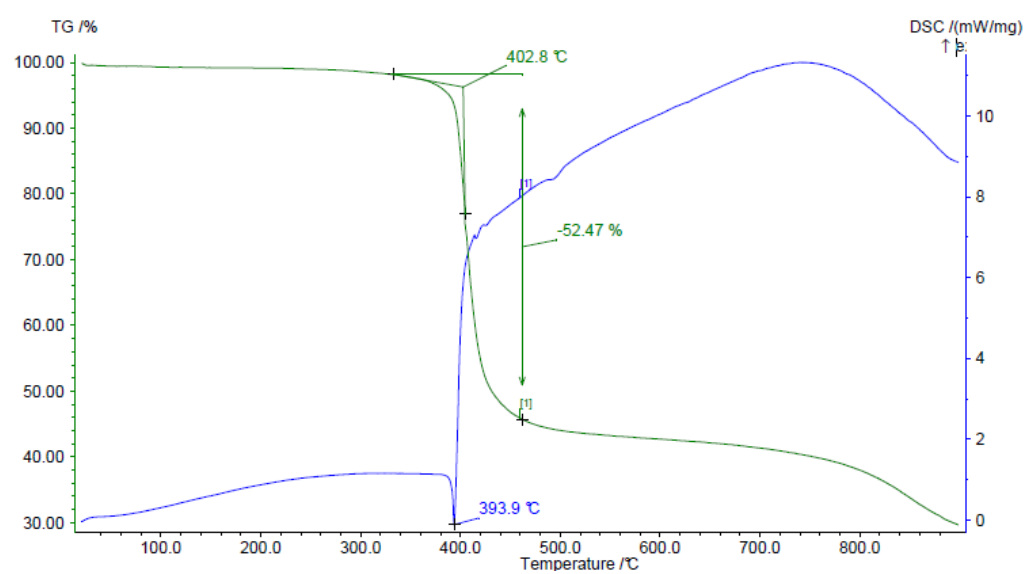
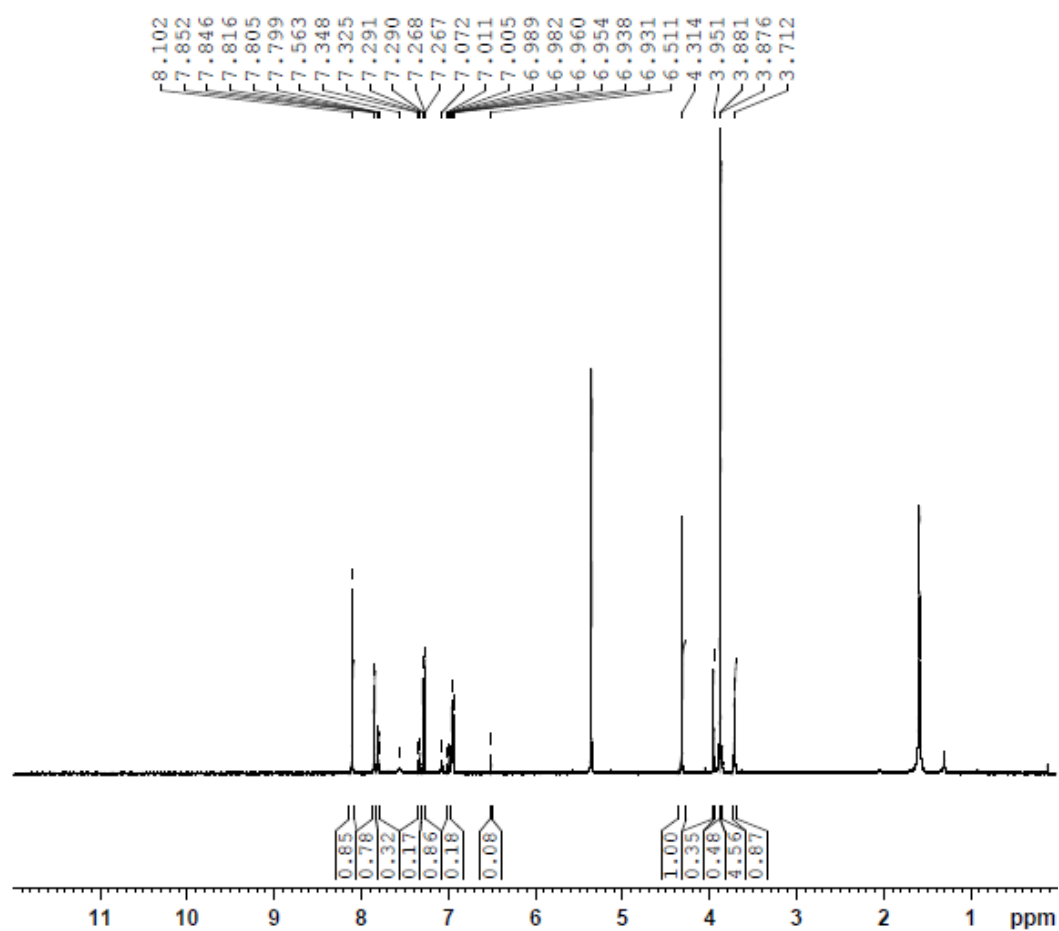


Figure S10. DSC (blue line) and TGA (green) traces of 1.

Figure S11. ^1H -NMR spectrum of 3.

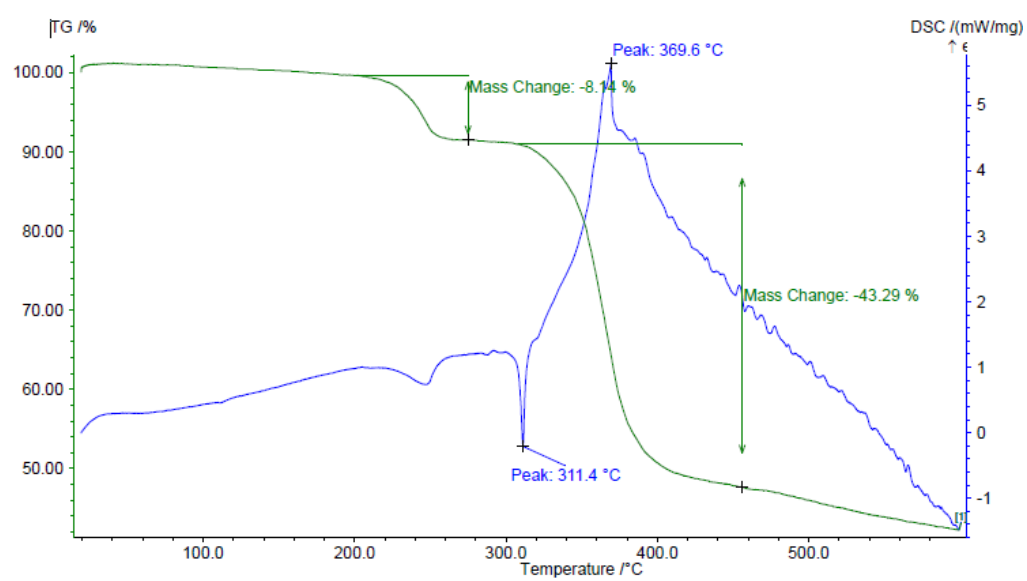


Figure S12. DSC (blue line) and TGA (green) traces of 3.

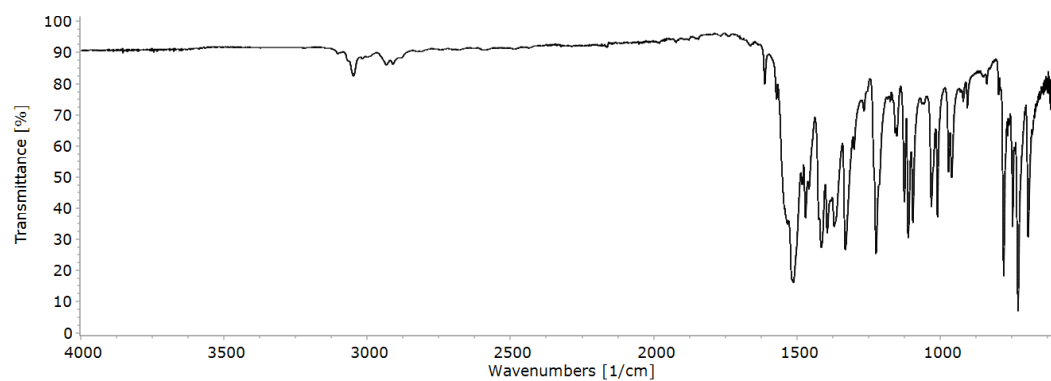


Figure S13. IR absorption spectrum of **2** in the 600 cm⁻¹ – 4000 cm⁻¹ spectral region.

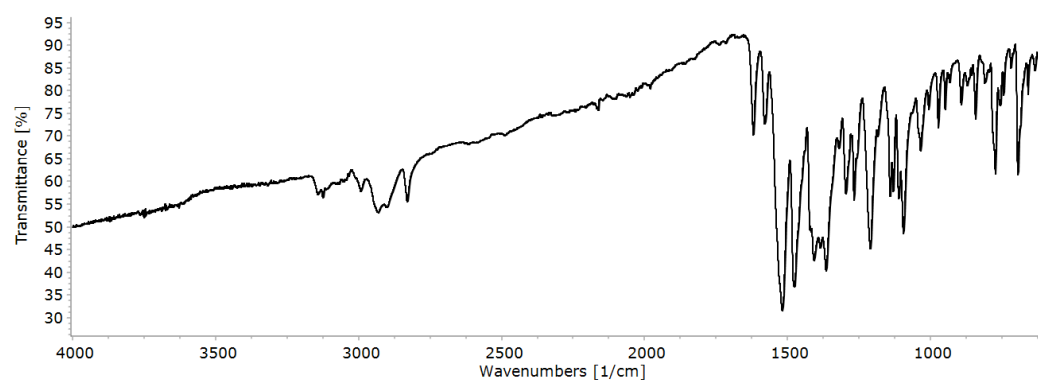


Figure S14. IR absorption spectrum of **3** in the 600 cm^{-1} – 4000 cm^{-1} spectral region.