Study of the effect of polymorphism on the self-assembly and catalytic performance of an L-proline based molecular hydrogelator

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Electronic Supporting Information



2500 - B 3000 - B 3000 - B 500 - B









Figures ESI1-ESI19. WAXD patterns corresponding to Table 1, Entries 1-19.



























pKa determination. Compound **1** was dissolved in an excess of aqueous HCl (0.01M) and then titrated with aqueous NaOH (0.01M). The pH was monitored potentiometrically with a glass pH electrode and the data analysed with HYPERQUAD2013 to afford the acidity constants. The pKa was determined for two concentrations of **1**, as shown below.

[1] _{initial}	рКа
1 mM	6.4 ± 0.1
5 mM	6.0 ± 0.1

Figure ESI20. Species distribution diagram as a function of pH for compound 1.

1 mM







Figure ESI21. WAXD patterns of compound 1·HCl·2H₂O simulated from single crystal data.¹⁰



Figure ESI22. Macroscopic aspect of samples with polymorphs A, B, and D.



Figure ESI23. Additional FESEM (top) and TEM (bottom) of samples with polymorph A.





Figure ESI24. Additional FESEM (top) and TEM (bottom) of samples with polymorph B.



Figure ESI 25. Additional TEM images of samples with polymorph D.





