Supplementary Material (ESI) for Journal of Materials Chemistry

Liquid-crystalline cholesterol-based [60]fullerene hexaadducts

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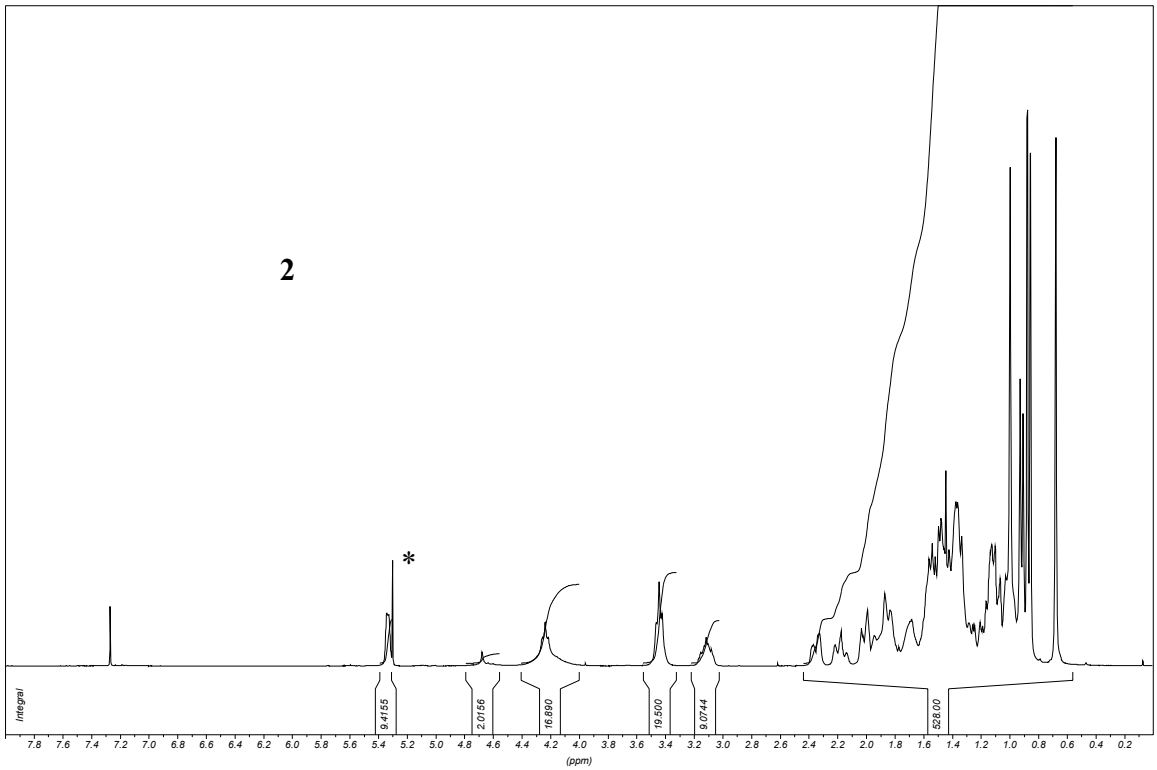
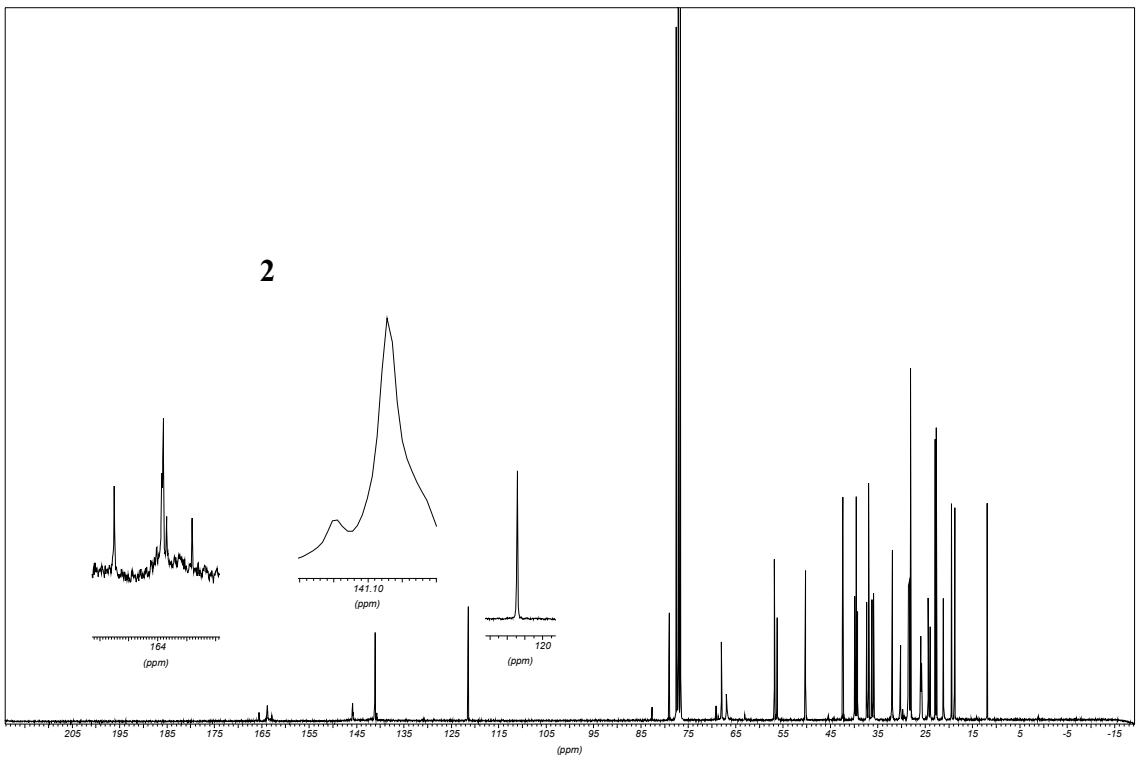
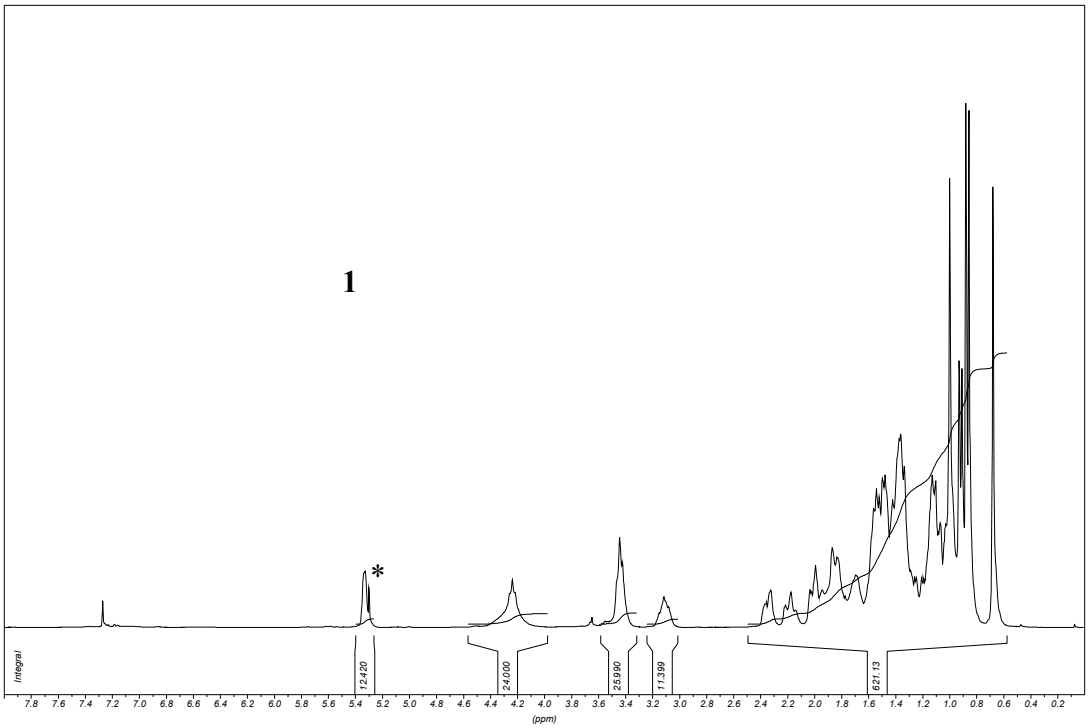
^{1}H NMR ($CDCl_3$, 300 MHz) of compound 2. (* CH_2Cl_2)



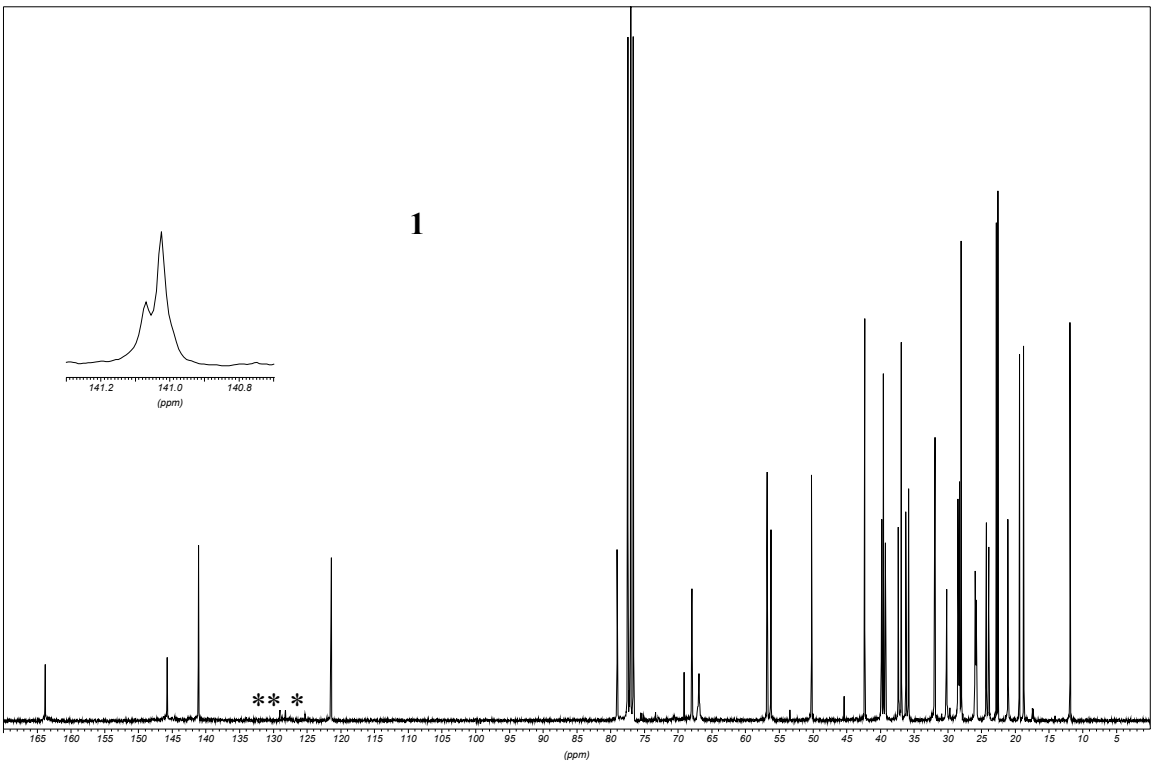
^{13}C NMR ($CDCl_3$, 75 MHz) of compound 2.



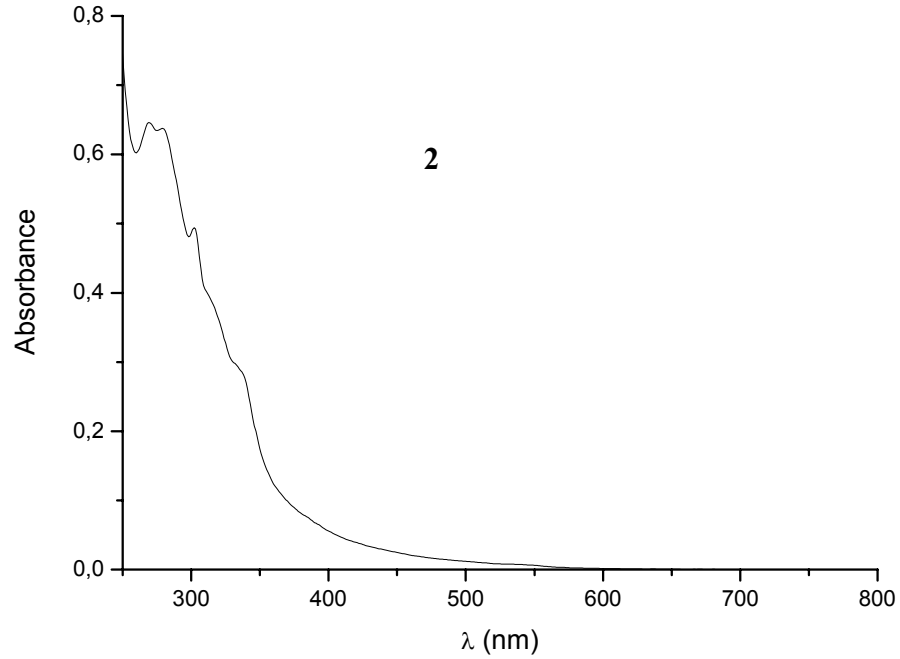
^{1}H NMR ($CDCl_3$, 300 MHz) of compound 1. (* CH_2Cl_2)



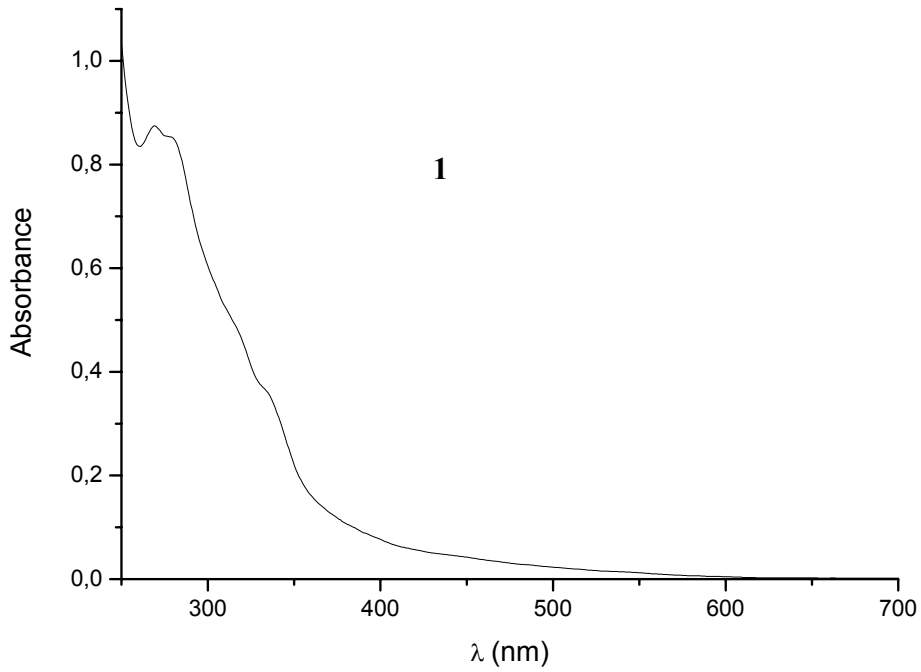
^{13}C NMR ($CDCl_3$, 75 MHz) of compound 1. (* toluene)



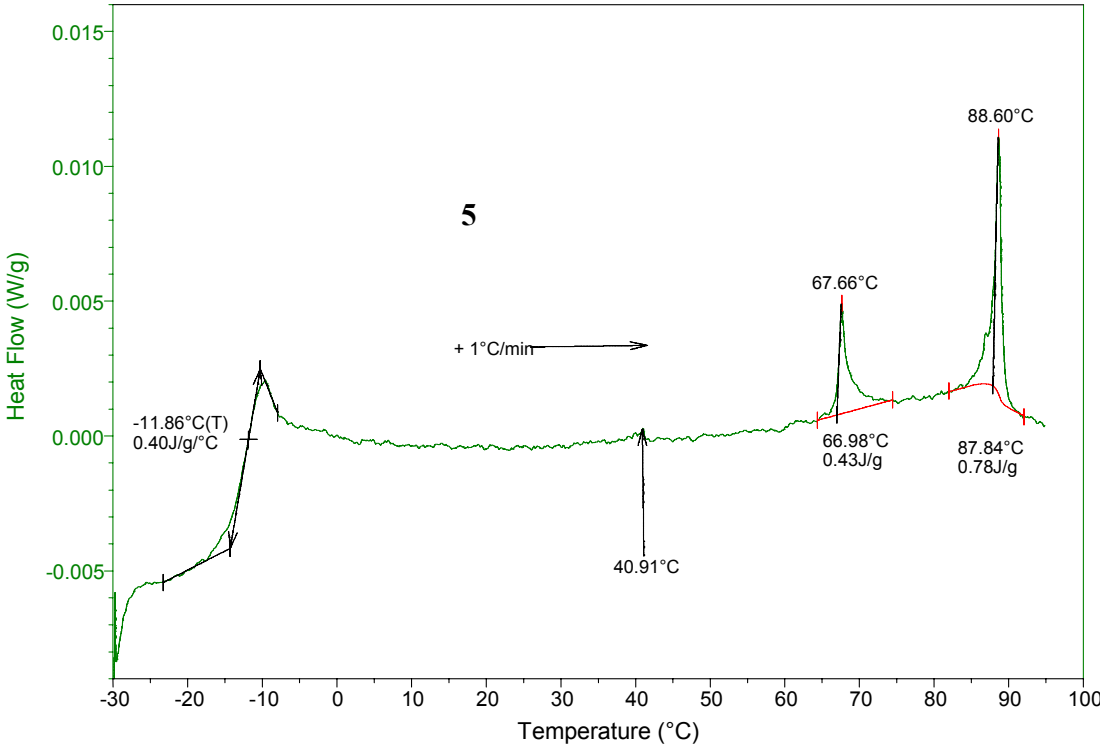
UV-Visible spectrum (CH_2Cl_2) of compound 2.

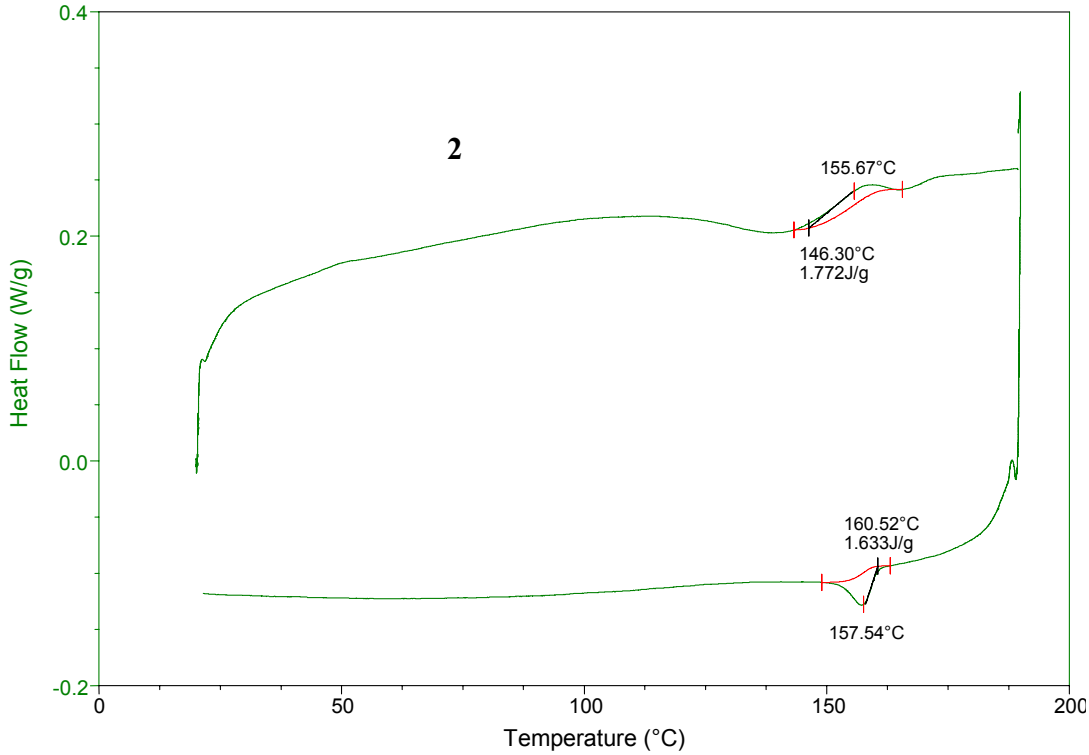


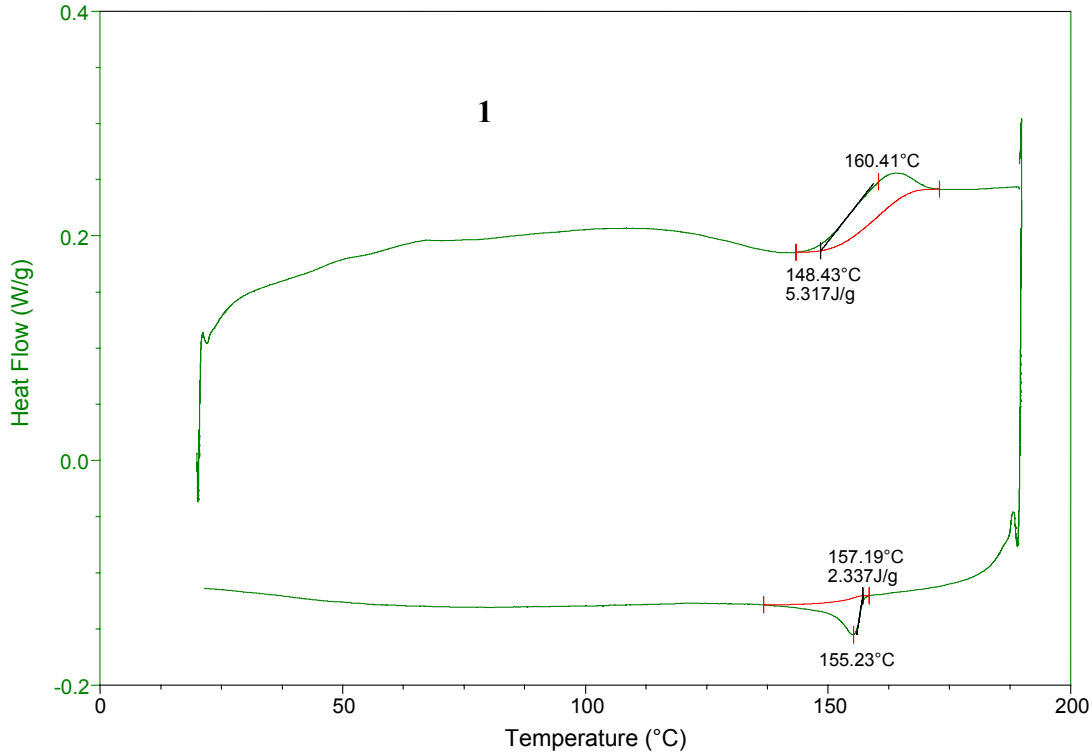
UV-Visible spectrum (CH_2Cl_2) of compound 1.



DSC curves obtained for 5 (first heating), 2 and 1 (first heating-cooling cycle).

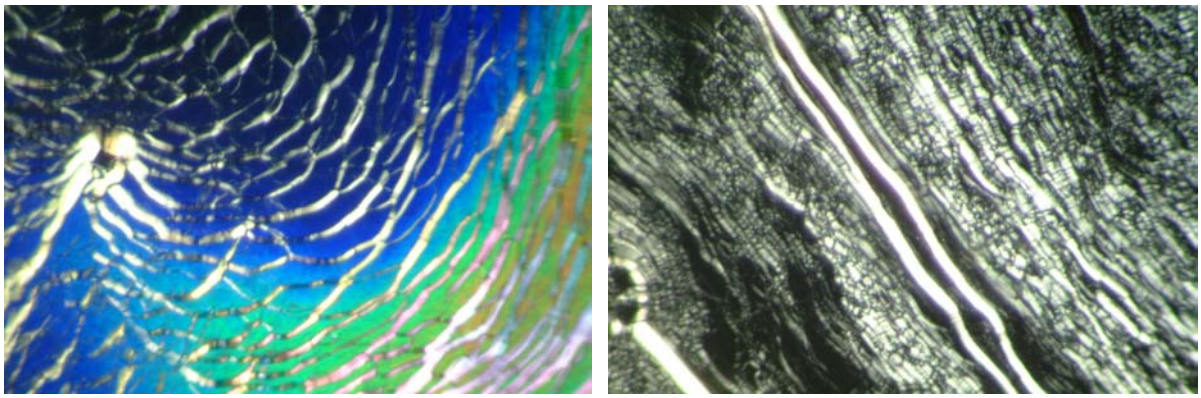




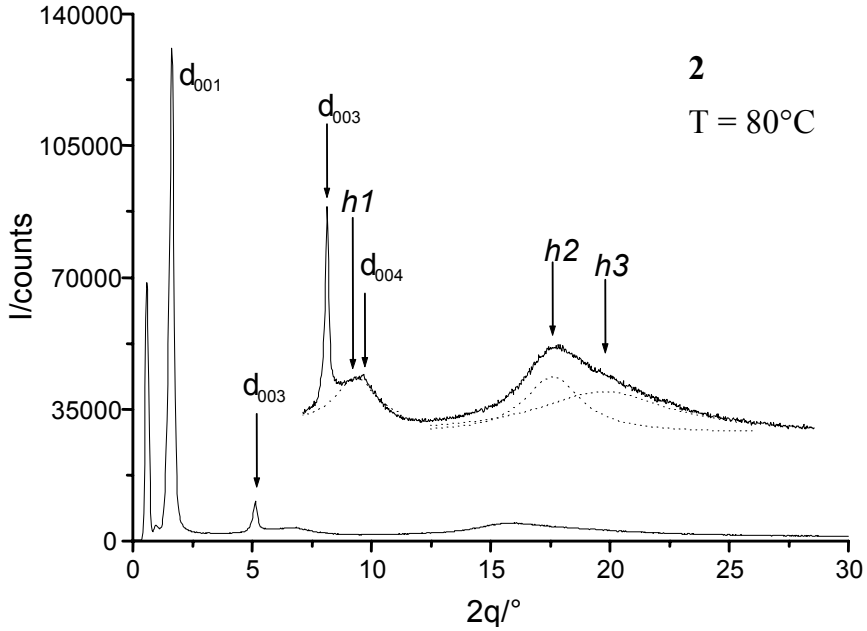


Polarizing optical microscope photographs of malonate 5 at: (a) 70°C, (b) 80°C.

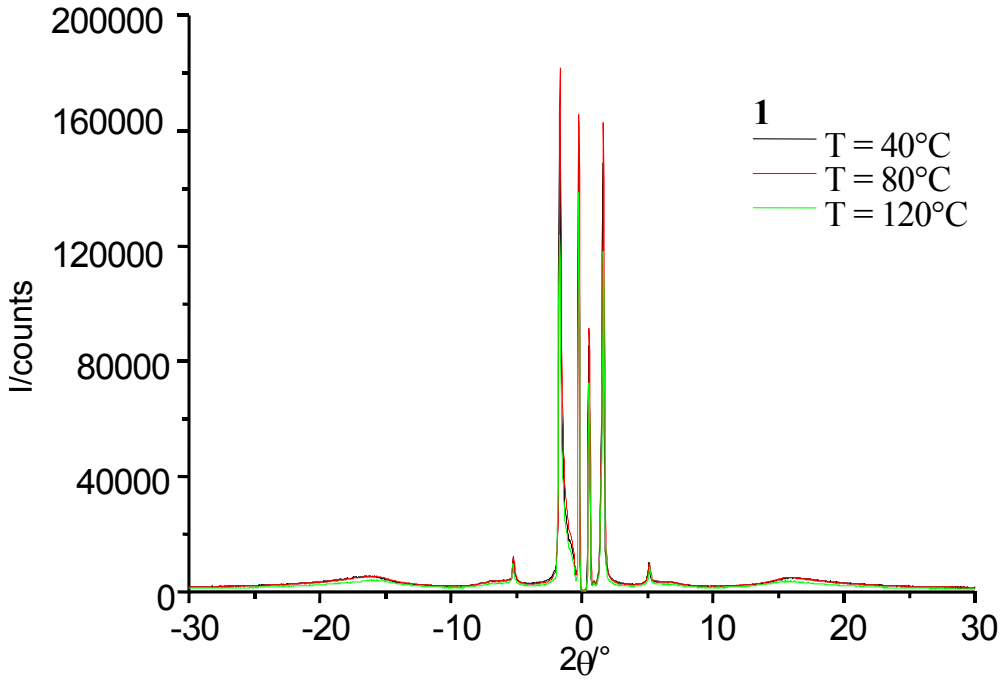
(a) **(b)**

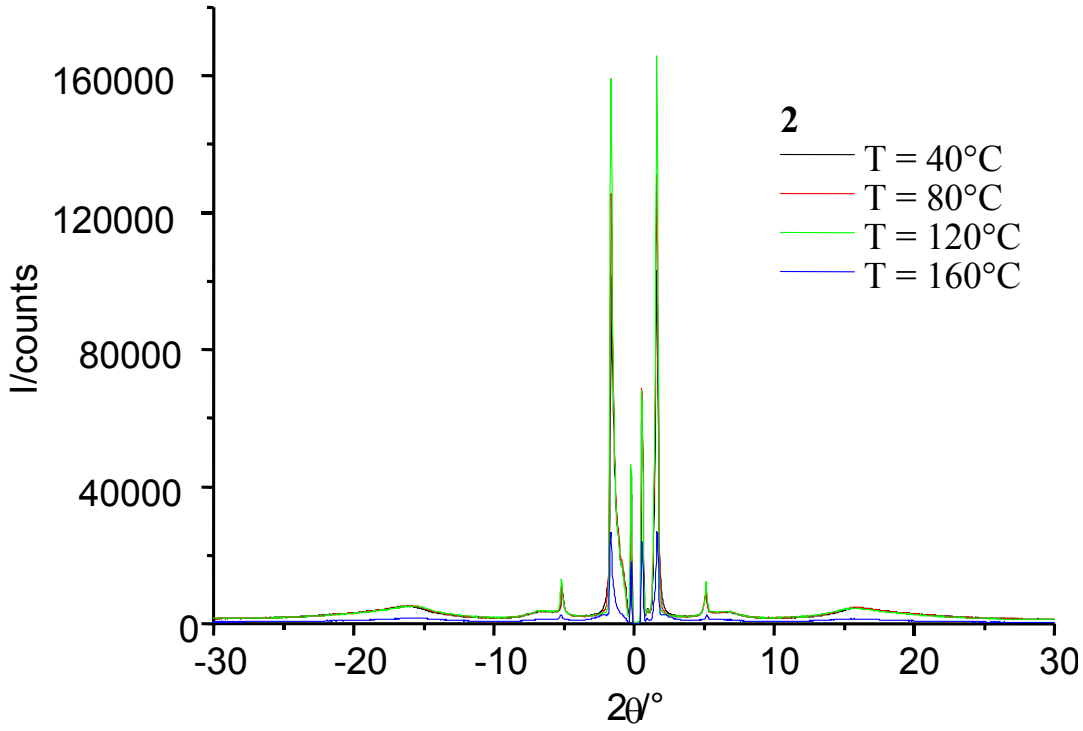


X-Ray diffraction pattern obtained for 2 at 80°C.

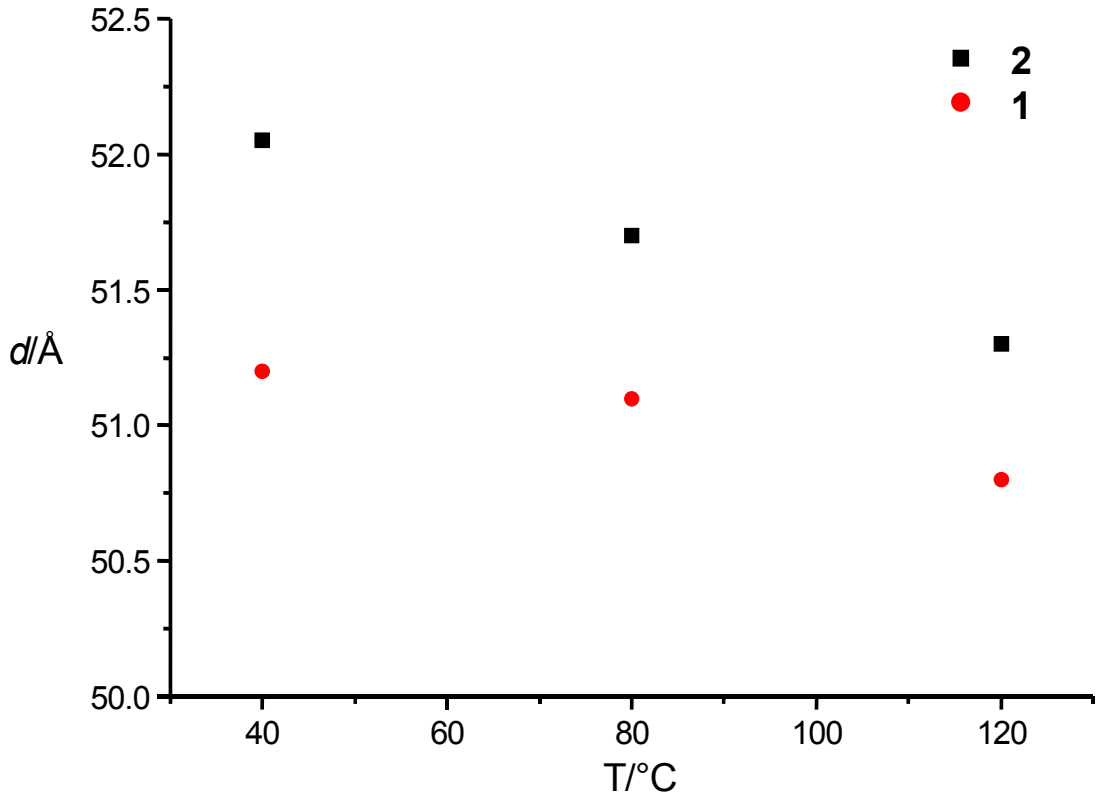


Evolution of the X-ray patterns of 1 and 2 with temperature.



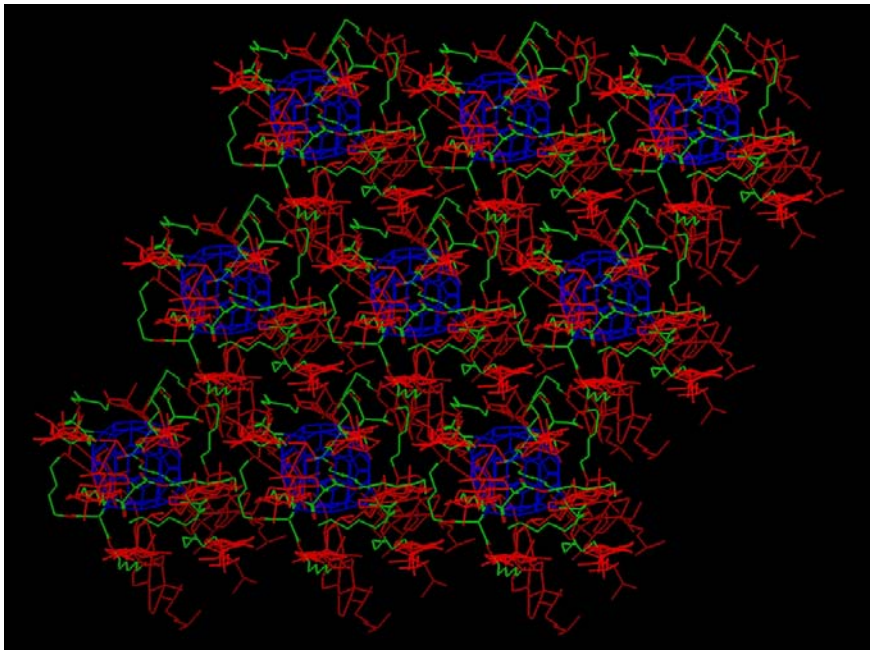


Variation of the lamellar periodicity *d* with temperature for 1 and 2.



Molecular modelling picture: short-range hexagonal lattice obtained for 1 by molecular modelling: (a) top view, (b) side view.

(a)



(b)