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Liquid-crystalline cholesterol-based [60]fullerene hexaadducts

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$^{13}$C NMR (CDCl$_3$, 75 MHz) of compound 2.
$^1$H NMR (CDCl$_3$, 300 MHz) of compound 1. (* CH$_2$Cl$_2$)

$^{13}$C NMR (CDCl$_3$, 75 MHz) of compound 1. (* toluene)
UV-Visible spectrum (CH$_2$Cl$_2$) of compound 2.

![UV-Visible spectrum of compound 2](image)

UV-Visible spectrum (CH$_2$Cl$_2$) of compound 1.

![UV-Visible spectrum of compound 1](image)
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.
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.