Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics

Supporting Information

Nonionic Diethanolamide Amphiphiles with Unsaturated C18 Hydrocarbon Chains: Thermotropic and Lyotropic Liquid Crystalline Phase Behavior

Sharon M. Sagnella[1], Charlotte E. Conn[2], Irena Krodkiewska[2], and Calum J. Drummond[2,*]

[1]CSIRO Materials Science and Engineering, PO Box 184, North Ryde, NSW, 1670 Australia
[2]CSIRO Materials Science and Engineering, Bag 10, Clayton South, VIC, 3169, Australia

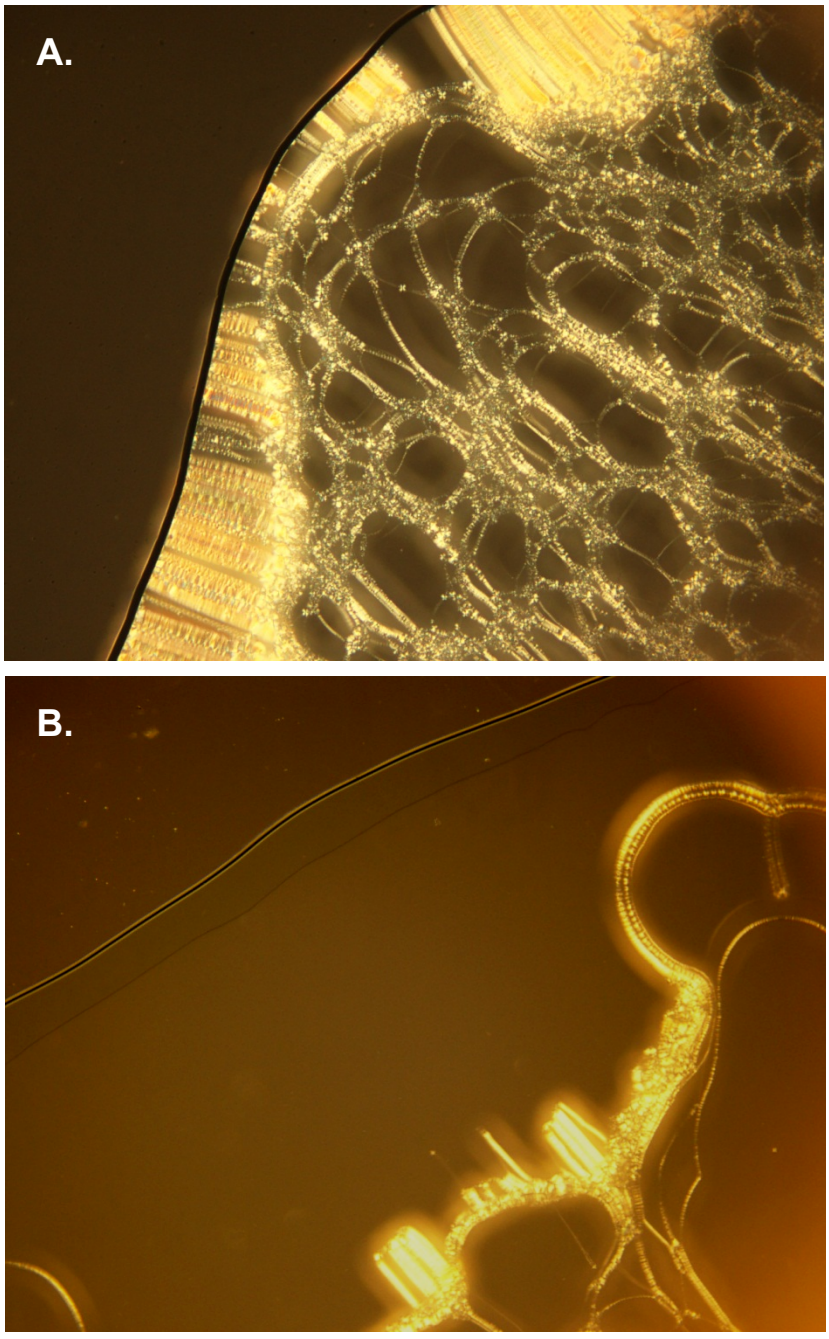

Figure S1: Polarized optical microscope images of neat linoleoyl diethanolamide. A. Image acquired at 15°C showing typical smectic liquid crystalline texture and B. Image acquired at 20°C, an isotropic band is present at the edge of the amphiphile indicating melting of the liquid crystalline phase to a fluid isotropic phase. These transitions occur at similar temperatures to the transitions indicated by DSC.

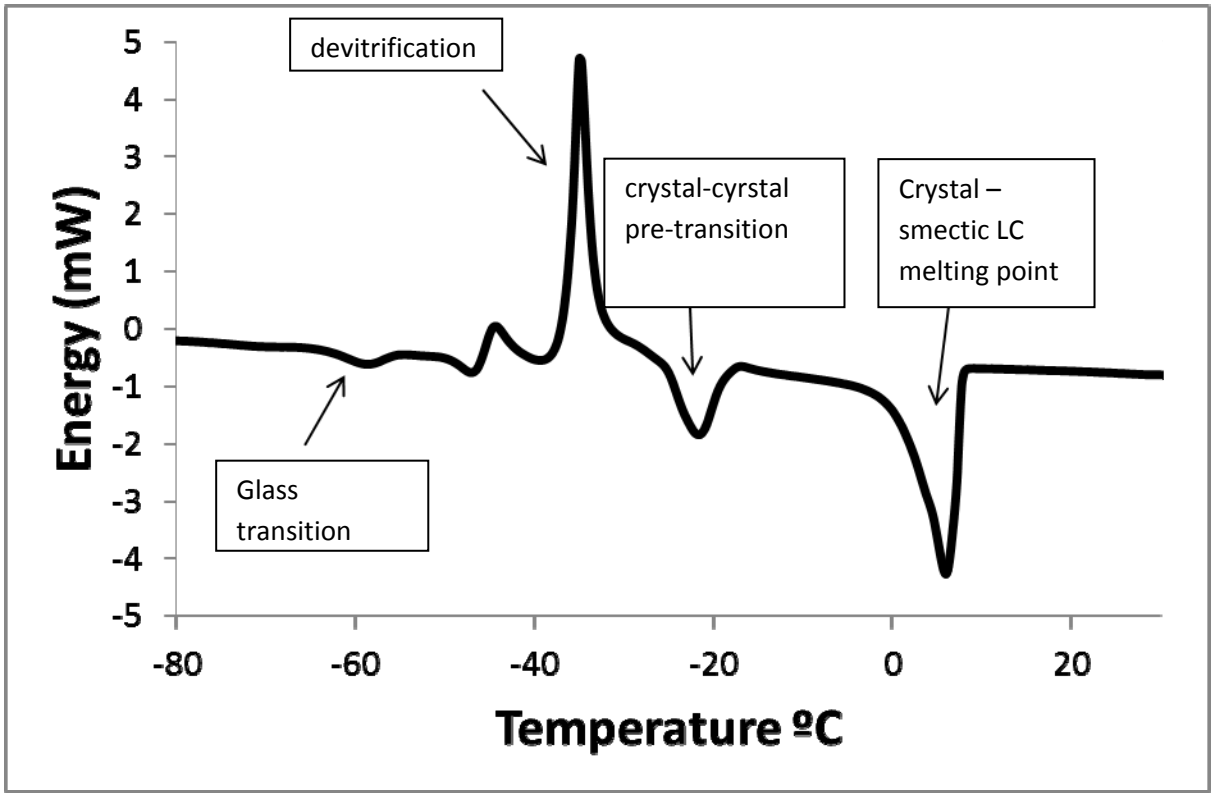

Figure S2: First Heating scan of Oleoyl Diethanolamide with transitions described in text indicated