

List of Abbreviations

EtOH	-	Ethanol
MeOH	-	Methanol
AcOH	-	Acetic acid
RBr	-	Alkyl bromide
dd (in NMR write-up)	-	Doublet of doublet
DFT	-	Density Functional Theory
B3LYP	-	Becke, 3-parameter, Lee-Yang-Parr
DMF	-	N, N-Dimethylformamide
DMSO	-	Dimethylsulphoxide
ESI-Mass	-	Electrospray Ionization Mass Spectrometry
NMR	-	Nuclear Magnetic Resonance Spectroscopy
FTIR	-	Fourier-Transform Infrared Spectroscopy
m (in NMR write up)	-	Multiplets
HOMO	-	Highest Occupied Molecular Orbital
LUMO	-	Lowest Unoccupied Molecular Orbital
s (in NMR write up)	-	Singlet
t (in NMR write up)	-	Triplet
SCXRD	-	Single Crystal X-Ray Diffraction
TGA	-	Thermogravimetric Analysis
DSC	-	Differential scanning calorimetry
POM	-	Polarizing optical microscope
hrs	-	Hours
ΔH	-	Enthalpy change
SmA (in Phase diagram)	-	Smectic A
N (in Phase diagram)	-	Nematic
I (in Phase diagram)	-	Isotropic
Cr (in Phase diagram)	-	Crystal
MESP	-	molecular electrostatic potential
ΔE	-	Energy Band gap
η	-	Hardness
<i>S</i>	-	Global softness
T_c	-	Mesomorphic stability
ΔT	-	Mesomorphic range
μ	-	Dipole moment

*Other abbreviations and symbols are explained in the text.