

Synthesis and Liquid Crystalline Properties of Novel Imides and Thioimides with Chiral Aliphatic Tails

Andrzej Orzeszko^{a,b}, Dorota Melon-Ksyta^a, Ewa Kowalczyk^a, and Krzysztof Czupryński^b

^a Agriculture University, Institute of Chemistry, ul. Nowoursynowska 159c, 02-787 Warsaw, Poland

^b Military University of Technology, 00-908 Warsaw, Poland

Reprint requests to Prof. A. Orzeszko. E-mail: Orzeszkoa@delta.sggw.waw.pl

Z. Naturforsch. **58b**, 1015 – 1020 (2003); received May 2, 2003

Three chiral compounds (*R*)-octan-2-ol, (*S*)-citronellol and (*S*)-citronellyl bromide were used for the synthesis of novel ester imides with biphenyl moieties as mesogenic units. Observations by means of polarising microscopy as well as DSC measurements revealed the presence of SmC* and/or SmA phases for all the compounds examined. It was found that the biphenyl units with long chiral alkoxy substituents induce smectic C phases.

Key words: Imides, Thioimides, Liquid Crystals