The Influence of the Position of Oxygen on the Phase Behaviour of Benzylidene Anilines

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Z. Naturforsch. **58a,** 735 – 737 (2003); received September 29, 2003

Synthesis and Characterization of N (*p*-*n*-alkyl benzylidene)-*p*-*n*-alkoxy anilines (*n*.O*m*), N (*p*-*n*-alkoxy benzylidene)-*p*-*n*-alkoxy anilines (*n*O.O*m*) and N (*p*-*n*-alkyl benzylidene)-*p*-*n*-alkyl anilines (*n.m*), where *n* = *m* = either 4 or 5, has been carried out using thermal microscopy (TM) and differential scanning calorimetry (DSC). The results are discussed in the light of other experimental observations on N (*p*-*n*-alkoxy benzylidene)-*p*-*n* alkyl anilines (*n*O.*m*). It has been observed that the position of oxygen on either side of the rigid core of the benzylidene moiety plays an important role in the manifestation of different phase variants.

Key words: *n*O.*m*, *n*.O*m*, *n*O.O*m*, and *n.m*, Phase Variants.