

Mesomorphic Properties of Homologous Series with Schiff Base Mesogen Unit and Glycols Spacer

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A series of new dimesogenic thermotropic compounds have been synthesized. These compounds consisted of two identical mesogens with the octyloxy terminal group bridged by the central glycols flexible spacer.

The liquid crystalline properties and thermal history of the dimesogenic compounds were studied by the differential scanning calorimetry and on the hot-stage of a polarizing microscope.

The structures of the compounds are presented below:

