

Synthesis and Thermal Properties of Twin Compounds, Alkanedi acids 4-(4'-Cyano)-biphenyl Diesters

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Alkanedi acids 4-(4'-Cyano)-biphenyl Diesters, Twin Mesogens

Four twin mesogens from the homologous series of alkanedi acids 4-(4'-cyano)-biphenyl diesters ($n = 4, 6, 8, 10$) have been synthesized and their thermal properties have been studied. Assignment of the phases has been made by means of polarizing microscopy and DSC measurements. It has been found, that the increase of the spacer length causes the lowering of the mesophase temperature range and influences other thermodynamic parameters of the compounds investigated.

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