

The Effect of Molecular Shapes of The New Thermotropic Compounds

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Two series of new thermotropic compounds with two terminal mesogenic units attached to both ends of a central flexible spacer were prepared. The changes in the phase transition temperatures can be ascribed to the modification of the atomic configuration. Due to this molecular configuration characteristic, the compounds I show only enantiotropic S_C phase of short range order at low temperature. On the while compounds II show only S_A phase.

The structures of the thermotropic compounds are given in the below:

