

New chiral Schiff's bases with a 1,3,4-thiadiazole ring in the mesogenic core: Synthesis, mesomorphic and ferroelectric properties

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Two new homologous series of chiral esters derived from Schiff's bases containing a 1,3,4-thiadiazole unit (series 6 and 7) were synthesized and their liquid crystalline and ferroelectric properties investigated. All the compounds of series 6 exhibit SmC*-SmA dimorphism and the compounds of series 7 exhibit a SmC* phase. All the compounds of these series are ferroelectric liquid crystals. © 2005 Taylor & Francis Group Ltd.