

Novel fluorescent liquid crystal containing azobenzene and stilbene moieties-synthesis, mesogenic and spectroscopic studies.

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This paper presents synthesis and characterization of new rigid core dye composed of two chromophore moieties such as azobenzene and stilbene parts. During this study liquid-crystalline properties was investigated and found as expected. An additional and unforeseen phenomenon of solid state polymorphism was also noticed. Furthermore, fluorescent properties were examined and confirmed by the fluorescence spectroscopy. This initial study gave very interesting and promising results which can be basis for further studies of such new type of azo-stilbene based substances.

Słowa kluczowe

liquid crystals, azobenzene, Stilbene, fluorescence, smectic, Dye

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