

Photoleitende Flüssigkristalle aus der Reihe der 2,3,6,7-Tetrakis(alkoxy)triphenylene

Liquid Crystals in the Series of 2,3,6,7-Tetraalkoxytriphenylenes

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Triphenylenes, Photoconductivity, Discotic Mesogens, Push-Pull Substitution

Stepwise bromination of the triphenylene **1** leads regioselectively to the monobromo and the dibromo compound **2** and **3**, respectively (Scheme 1). In contrast to **1** and **2**, the dibromo derivative **3** as well as the nitrile **4**, obtained from **3** and CuCN, form thermotropic mesophases D_h . On irradiation of **3** and **4** a photocurrent can be measured in the crystalline state and an enhanced photocurrent in the LC phase.

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