Influence of a Nitro Side Group on Liquid Crystalline Properties of Trimellitimides

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Two series of ester imides from trimellitic anhydride as well as 6-nitrotrimellitic anhydride (4-carboxy-6-nitrophthalic anhydride) have been synthesized. Their thermotropic properties have been compared. Only one nitro compound, $N$-dodecyl-4-[(4′-decyloxybiphenyl-4-yl)oxycarbonyl]-6-nitrophthalimide has shown liquid crystalline properties.

Key words: Trimellitimides, Nitro Side Group, Liquid Crystals