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Effect of molecular structure on liquid crystalline behaviour for chiral lactic acid derivatives

Liquid crystals are self-organizing materials that have great potential for practical applications. The relationship “molecular structure - mesomorphic propertiesamp;39;amp;39; has not been fully established and understood despite numerous studies. We discuss a relatively broad subclass of calamitic chiral lactic acid derivatives and provide specific examples of effective tuning of their mesomorphic and electro-optical behaviour using various types of lateral substitution placed on the molecular core.

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