Functionalised lower rim calix[4]arene liquid crystal properties

By Pinkeshkumar Sutariya

LAP Lambert Academic Publishing Feb 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand Neuware - Liquid crystal (LC), being fourth state of the matter, are exceptionally well-designed soft materials that include both direction and flexibility on a molecular and macroscopic layer. Recently, thermotropic liquid crystals have gained so much consideration due to their role in temperature sensors, electro-optic display and semiconducting layer in organic field effect transistors , light emitting diodes, photovoltaic cells and photo-recording devices . LC is now playing tremendous contribution in material science with various nanomaterial. LC is predominantly used for their technological applications in liquid-crystal display (LCD). Calix[n]arene gives an ideal platform with unlimited freedom in regioselective and sterioselective derivatisation with easy modification at the upper rim and lower rim by means of non-covalent interaction, intermolecular forces and hydrogen bonding. 64 pp. Englisch.

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