Blue Phase Behavior at nOCB Homologues Chiral Nematic Liquid Crystal Mixtures

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In this study, it was investigated to know chemical structure dependence of blue phase temperature range that the relationship between the BPs temperature range and the helical twist power at nOCB homologues chiral Liquid crystal mixtures composed of rod-like nematic LC. It was confirmed that BPs temperature range was strongly dependent upon either odd number or even number of alkyl chain of nOCB at nOCB homologues chiral neamtic LC mixtures.