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Title:	Microwave-assisted synthesis of novel mixed tail rufigallol derivatives
Authors:	Setia, S. (/jspui/browse?type=author&value=Setia%2C+S.) Soni, A. (/jspui/browse?type=author&value=Soni%2C+A.) Gupta, Monika (/jspui/browse?type=author&value=Gupta%2C+Monika) Sidiq, S. (/jspui/browse?type=author&value=Sidiq%2C+S.) Kumar Pal, S. (/jspui/browse?type=author&value=Kumar+Pal%2C+S.)
Keywords:	Rufigallol Liquid crystals Microwave-assisted synthesis Branching
Issue Date:	2013
Publisher:	Taylor & Francis
Citation:	Liquid Crystals,40(10), pp.1364-1372.
Abstract:	Microwave-assisted syntheses of five new series of rufigallol-based mesogens are reported with branched alkyl chains at the peripheral positions. The chemical structures of these newly synthesised compounds were determined by ¹ H nuclear magnetic resonance (NMR), ¹³ C NMR, infrared spectroscopy, ultraviolet spectroscopy and elemental analysis. The thermotropic liquid crystalline properties were investigated by polarising optical microscopy (POM), differential scanning calorimetry and X-ray diffractometry. Most of the derivatives were found to be liquid crystalline over a wide temperature range.
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