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Bis-Swallow-Tailed Alkoxy-Substituted Di and Tri hydroxyl benzoic acid:Synthesis, PhotophysicalPropertiesandThermotropic Behaviors

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Abstract: A new series of bis-swallow-tailed mesogens N,N'-1,4-biphenyl-lbis[3,5-Di(4`-alkyloxybenzoylox) benzamide] and N,N'-1,4-biphenyl-bis[3,4,5-Tri(4`-alkyloxybenzoylox) benzamide] are synthesized. The synthesized compounds were characterized using FT-IR, CHNS analysis and ^{1}H-NMR. The liquid crystalline properties of the prepared compounds, the effect of these ends on the mesogenic properties and their Transitional stability were verified using hot-stage polarizing optical microscope (POM) differential scanning calorimeter (DSC).
Keywords: Liquid crystalline, Mesogen, Mesomorphism**.**

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