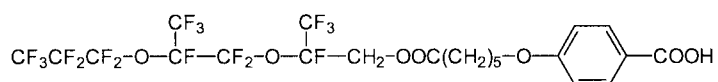


454 **Synthesis and Properties of Perfluoroalkyl-alkoxy Substituted Benzoic Acid Derivatives II: Forming Liquid Crystalline Cubic Phases**



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A benzoic acid derivative having a relatively flexible long fluorinated chain was synthesized. This organic acid dimerizing through hydrogen bonding shows a smectic C phase at room temperature. The hydrogen bonded acid/base complex between the acid and 4,4'-dipyridyl exhibits a liquid crystalline cubic phase of a face centered cubic structure with an estimated cell parameter of 10.9 nm.
