## Synthesis and Solid-state Structure of a Star-shaped Oligobenzoate

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A star-shaped oligobenzoate with short peripheral propyloxy chains (1) forms single crystals  $1 \cdot (Me_2CO)_{0.5}$  with a triclinic unit cell from acetone. The oligobenzoate arms are fully extended, possessing only carboxy groups with *s*-trans conformation. Aliphatic chains and oligobenzoate scaffold do not nano-segregate as proposed for other derivatives which assemble in liquid crystalline phases, but instead, the polar arms occupy the voids between arms of neighboring stars. Although a model based on this scenario may rationalize the small column diameter in the LC phase of long-chain derivatives, the low density of the resulting material points rather to the recently established representation with folded conformers self-assembling in columns by nano-segregation.

Key words: Star-shaped Molecules, Single Crystal, Supramolecular Chemistry, Mesogens, Liquid Crystals, Nano-segregation