

Generation of biaxiality in smectic A phases by introduction of intermolecular perfluoroarene-arene and C-H/F interactions, and the non-odd-even effect of the molecules in their transition temperatures and layer distances

Keiki Kishikawa,*^a Takahiro Inoue,^a Yoshiyuki Sasaki,^a Sumihiro Aikyo,^a Masahiro Takahashi^a and Shigeo Kohmoto^a

Electronic Supplementary Information

Table S1. Layer distances of **1a-j** obtained by XRD

compound	<i>n</i>	<i>d</i> _{obsd} (Å) ^a	<i>L</i> _{calcd} (Å) ^b
1a	7	24.5	27.0
1b	8	26.9	28.2
1c	9	27.6	29.6
1d	10	27.8	30.6
1e	11	29.5	32.0
1f	12	30.8	33.1
1g	13	30.8	34.5
1h	14	32.2	35.6
1i	15	33.1	36.8
1j	16	32.0	38.1

^a The layer distance obtained from *d*(100) in the XRD profile.

^b The molecular length *L* calculated as the all *trans*-form by molecular modelling (Chem3D).