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Syntheses and Crystal Structure of Benzohexathia[7]helicene and Naphthalene Cored Double Helicene


**Helicene and Double Helicene**

![Chemical structures](image)

**Significance:** A high-yield synthesis of three novel helicene compounds (3, 5 and 6) was developed. X-ray single-crystal structure analysis revealed multiple intermolecular short contacts and UV/Vis spectra indicate significant π-delocalization in double helicene 6, indicating potential in organic functional materials.

**Comment:** The efficient synthesis of 1 can be achieved in a total yield of 28% from 3-bromo-thiophene (*J. Org. Chem.* 2009, 74, 408).

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