Category

Synthesis of Materials and Unnatural Products

Key words

annulation

π-electron materials

boron

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Synthesis of Functionalizable Boron Containing π-Electron Materials that Incorporate Formally Aromatic Fused Borepin Rings

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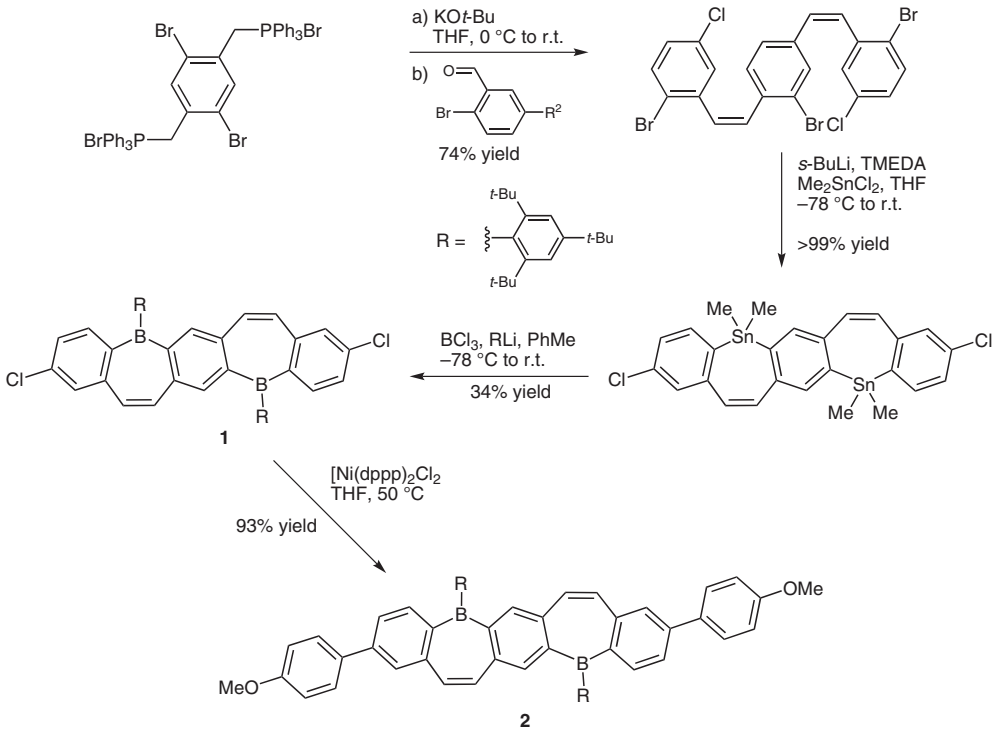
Stable Borepin Rings



Significance: A versatile synthesis of polycyclic six π-electron borepin rings is described. In the key step the normally unstable borepin ring is 'trapped' using a bulky 2,4,6-triisopropylphenyl group (e.g., in the formation of **1**) allowing for further synthetic elaboration under ambient conditions. The authors report several examples of these novel heterocycles in addition to the fused diborepin **2** shown above.

Comment: The reported family of stable and planar borepins may prove to be a useful precursor in the construction of new electronic materials.

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