Synthesis and Derivatization of Expanded \([n]Radialenes\) \((n = 3, 4)\)

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**Expanded \([n]Radialenes: Unusual Carbon-Rich Molecules**

**Synthesis of extended \([4]radialenes:***

![Diagram](image)

**Synthesis of extended \([3]radialenes:***

![Diagram](image)

**Significance:** Conjugated macrocycles belong to a class of carbon-rich molecules that exhibit unusual structures and fascinating electronic and optical properties. Here, Tykwinski and co-workers report synthetic approaches to extended \([4]radialenes\) \(1\) and \([3]radialenes\) \(2\).

**Comment:** Synthesis of the extended radialenes \(1\) and \(2\) is accomplished by a one-pot deprotection and palladium-catalyzed cross-coupling reaction of common intermediates \(3\) and \(4\), respectively. Increased bond-angle strain appears to reduce yields in the synthesis of \(2\) compared to \(1\). A modified synthesis that leads to \(C_2\)-symmetric expanded \([4]radialenes\) is also presented in this work.

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