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

Expanded [n]Radialenes: Unusual Carbon-Rich Molecules


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 C2-symmetric expanded [4]radialenes is also presented in this work.