## **New Samarium Diiodide Induced Cyclizations**

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Details

## **Abstract**

Samarium diiodide (Sml<sub>2</sub>) smoothly promotes the cyclizations of suitably substituted carbonyl compounds with styrene subunits leading to benzannulated cyclooctenes. The intramolecular samarium ketyl addition to arene or hetarene moieties enables a new, efficient, and highly stereoselective entry to dearomatized products such as hexahydronaphthalenes, steroid-like tetraor pentacyclic compounds, or dihydroindole derivatives. The usefulness of the developed Sml<sub>2</sub>-induced cyclization method was demonstrated by the shortest formal total synthesis of the alkaloid strychnine.



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## **Details**

## Identifier

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