

Materials List for:

Preparation and Use of Samarium Diiodide (SmI₂) in Organic Synthesis: The Mechanistic Role of HMPA and Ni(II) Salts in the Samarium Barbier Reaction

Dhandapani V. Sadasivam¹, Kimberly A. Choquette¹, Robert A. Flowers II¹

¹Department of Chemistry, Lehigh University

Correspondence to: Robert A. Flowers II at rof2@lehigh.edu

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Materials

Name	Company	Catalog Number	Comments
Samarium metal	Acros	29478-0100	-40 mesh, 99.9% (metals basis)
THF	OmniSolv	TX0282-1	Purified through Innovative Technologies solvent purification system. Alternatively it can be degassed through free-pump-thaw method
Iodine	Alfa Aesar	41955-22	Resublimed crystals, 99.8%
Iodododecane	Acros	25009-0250	98%
3-pentanone	Alfa Aesar	AAA15297-AE	99%
HMPA	Aldrich	H11602	98%; distill from CaO under Argon
NiI ₂	Alfa Aesar	22893	99.5% (metals basis)