

ヨードトリメチルシランを用いた一段階 α -ハロスチレン誘導体の合成

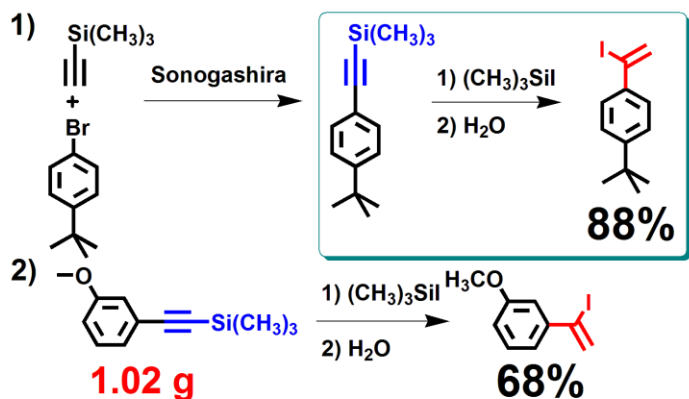


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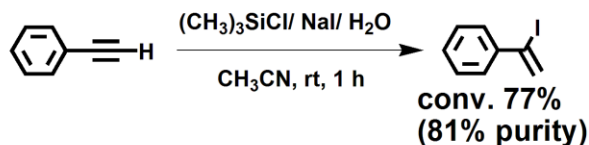
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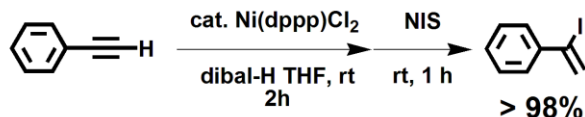
Summary a) Sato, A. H.; Mihara, S.; Iwasawa, T. *Tetrahedron Lett.* **2012**, 53, 3585-3589. b) 特願 2012-170680



Background

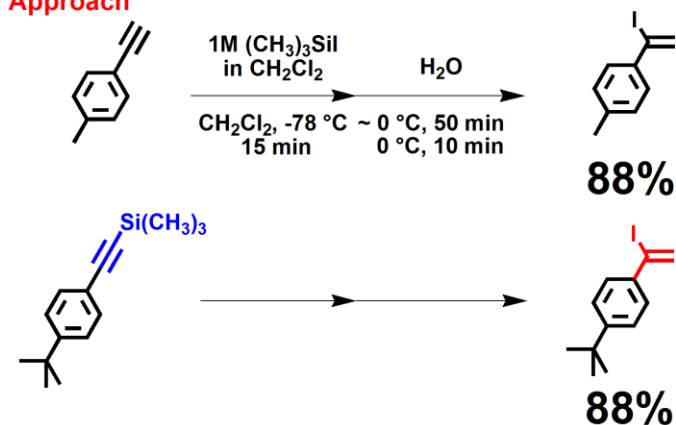


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Kawaguchi, S.; Ogawa, A. *Org. Lett.*, **2010**, 12, 1893-1895.

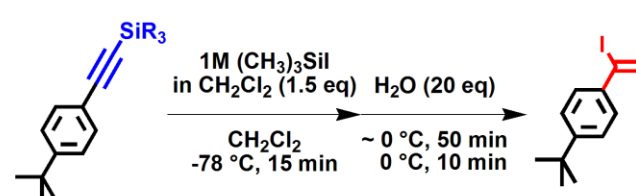


Gao, F.; Hoveyda, A. H. *J. Am. Chem. Soc.*, **2010**, 132, 10961-10963.

Approach

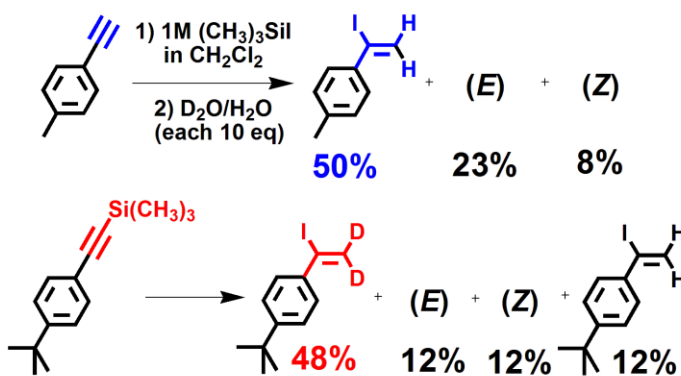


Effect of the trialkylsilyl groups

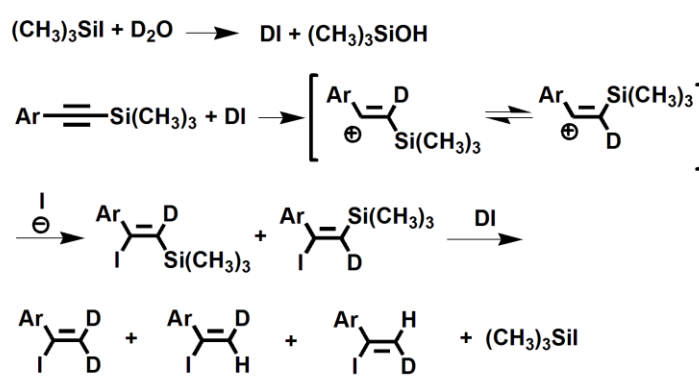


R	yield (%)	Recovered alkyne (%)
CH ₃	88	0
CH ₂ CH ₃	80	13
CH(CH ₃) ₂	54	45

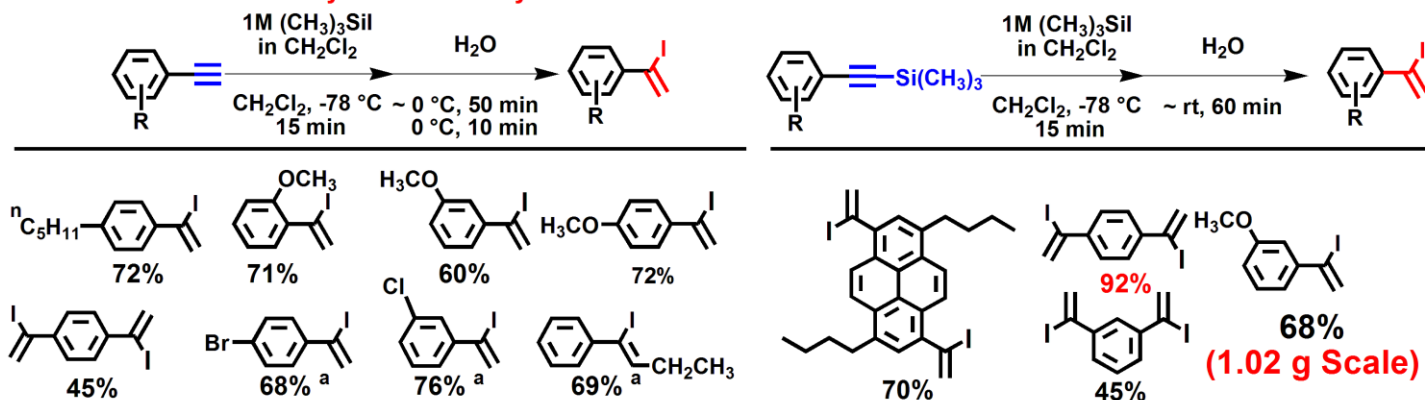
Mixture of D₂O (10 eq) and H₂O (10 eq)



Plausible pathway



Evaluation of the reactivity of several alkynes



^a Satd. aq. NH₄Cl was added instead of H₂O.