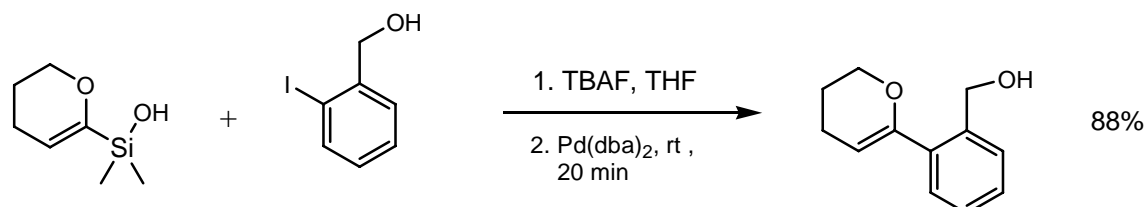


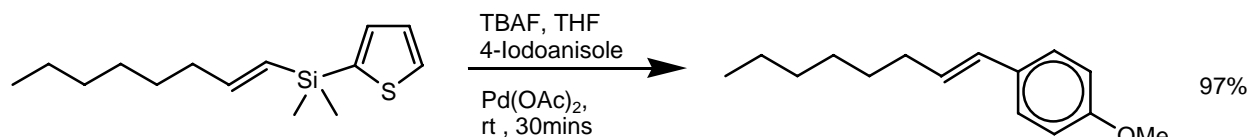
# HIYAMA CROSS-COUPLING REACTIONS

The palladium-catalysed reaction between organohalides and organosilicons is generally known as the Hiyama Cross-coupling Reaction.<sup>1</sup> The reaction is similar to the well known Suzuki-Miyaura Cross-coupling Reaction.

Dimethylsilanols and their salts are excellent cross-coupling partners which can provide the desired products under mild conditions and in high yields.<sup>2</sup>



Recently, safety-catch silanols have been developed which are stable under a range of reaction conditions, are stable to moisture and chromatography but which can be activated *in situ* to give the desired reactive silanols. Examples of safety-catch silanols include 2-pyridyldimethylsilanes, 2-thienyldimethylsilanes and benzyldimethylsilanes.<sup>3</sup>



Substituted pyridyl-2-trimethylsilanes have also recently been found to be competent cross coupling partners.<sup>4</sup>



## References

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- (4) Pierrat, P.; Gros, P.; Fort, Y. *Org. Lett.*, **2005**, *7*, 697-700.

For a full listing of reagents for Hiyama cross-couplings, visit [www.amtechpl.com](http://www.amtechpl.com).

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