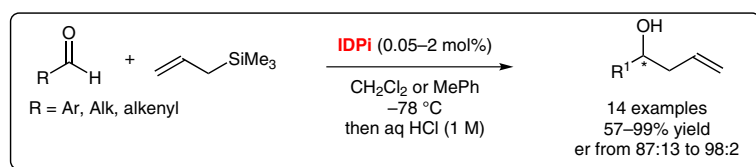
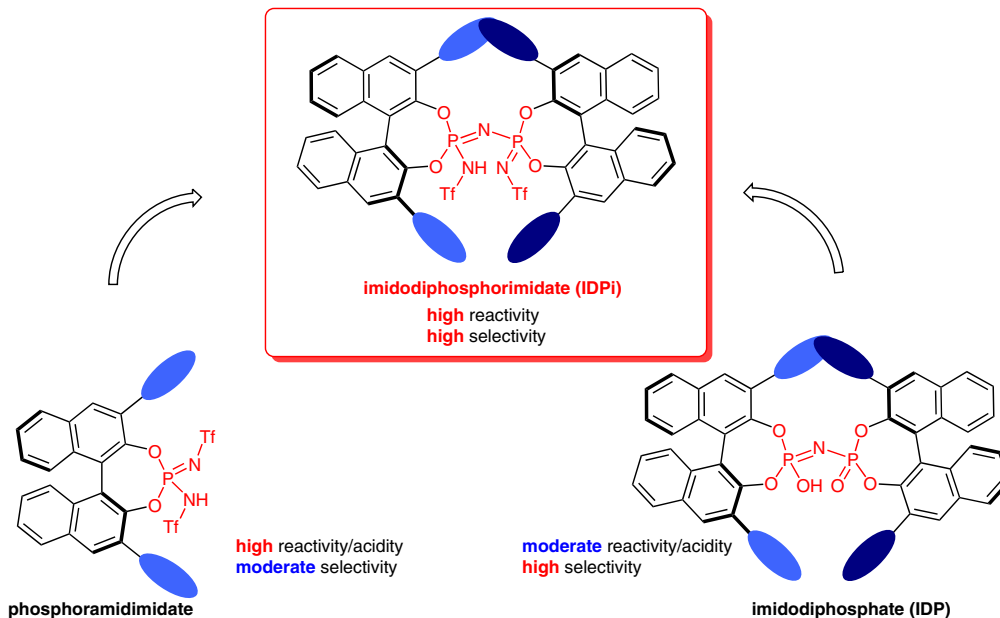
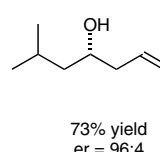
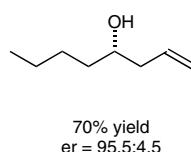
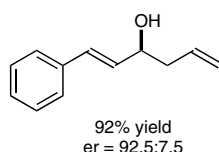
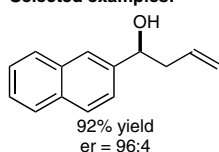


# Highly Enantioselective Addition of Allyltrimethylsilane to Aldehydes



## Selected examples:



**Significance:** List and co-workers report the first general, highly enantioselective, organocatalytic addition of allyltrimethylsilane to aldehydes (the Hosomi–Sakurai reaction). This transformation is enabled by newly developed highly confined imidodiphosphorimidates **IDPi**. Various aromatic and aliphatic aldehydes are tolerated under the reaction conditions, affording the desired products in good to excellent yields and enantioselectivities (er  $\leq$  98:2).

**Comment:** The **IDPi** motif, which can be accessed by a single-flask synthesis from 3,3'-disubstituted BINOL derivatives, is a combination of the recently developed highly confined imidodiphosphates (*Nature* **2012**, *483*, 315) and highly acidic BINOL-derived phosphoramidimidates (*Synlett* **2016**, *27*, 156).

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*Synfacts* 2016, 12(12), 1301 Published online: 17.11.2016  
**DOI:** 10.1055/s-0036-1589631; **Reg-No.:** B08016SF