Category

## Ruthenium-Catalyzed Generation of N-Unsubstituted Imines


$R^{1}=R^{2}=A r, A l k$
$R^{3}=R^{4}=H, M e$
$\mathrm{BR}_{2}=\mathrm{Bpin}, \mathrm{B}(-)-(\mathrm{lpc})_{2}$


## Selected examples:



Significance: The authors report, that N-unsubstituted imines can be efficiently generated from alkyl azides using a ruthenium catalyst and fluorescent light. Furthermore, an allylation reaction in a one-pot fashion was achieved, leading to homoallylic imines.

Comment: The mild reaction conditions allow an asymmetric allylation of in situ generated benzaldimine from benzyl azide. Using the chiral allyl bis(isopinocampheyl)borane reagent at $-78^{\circ} \mathrm{C}$ furnishes the homoallylic amine in $87 \%$ yield with an enantiomeric excess of $89 \%$.

[^0]
[^0]:    synfacts Contributors: Paul Knochel, Andreas K. Steib
    Synfacts 2013, 9(1), 0079 Published online: 17.12.2012
    DOI: 10.1055/s-0032-1317740; Reg-No.: P16212SF

