Free-radical transformations involving organoboranes and hydrazones

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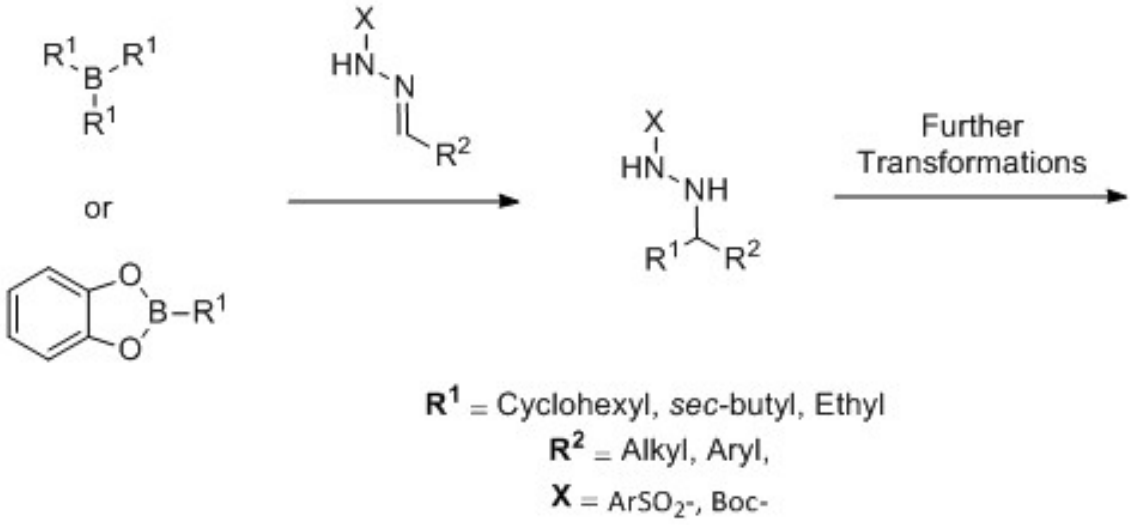
Trialkylboranes and alkyl-catecholboranes (commercially available or prepared by hydroboration of olefins) represent a versatile source of alkyl radicals which can be used in different synthetic transformations.[1] The nucleophilic character of the radicals generated makes possible their addition to suitable electrophilic traps.[2] In this work we describe the addition of alkyl radicals to hydrazones which by turn can serve as a method for the functionalization of olefins. Additionally, we present insights about how the corresponding products can be further transformed into compounds of synthetic value.



[1] Cyril Ollivier, Philippe Renaud, *Chem. Rev.* **2001**, 101, 3415−3434.
[2] Gregory K. Friestad, *Tetrahedron,* **2001**, 57, 5461-5496.