Radical Chemistry of Gem-Diboronates

A. Kuzovlev¹, M. Lüthy¹, P. Renaud¹*

¹University of Bern

Organoboranes, commercially available or easily prepared via hydroboration of olefins, represent a very attractive source of alkyl radicals.¹ Dihydroboration of terminal alkynes by borane was discovered by Brown.² We report here, that gem-dicatecholboranes, obtained by hydroboration of terminal alkynes, are suitable precursors for the generation of radicals. Depending on the nature of the trap, mono- or bis-reactions are observed.