



Organotrifluoroborate Preparation, Coupling and Hydrolysis (Springer Theses)

Alastair J. J. Lennox

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Alastair Lennox's thesis reports on the reactivity of organotrifluoroborates, which are becoming increasingly important reagents in synthesis. The thesis is divided into three sections. The first section describes a method for preparing organotrifluoroborates. The second section reports on a mechanistic investigation into the main application of RBF₃K reagents as coupling partners in Suzuki-Miyaura coupling, phenomena identified as arising from organotrifluoroborate hydrolysis and fluoride release. The final section reports on a detailed investigation into the hydrolysis mechanism, a prerequisite for their Suzuki-Miyaura coupling, and how it may be predicted and controlled. This research has uncovered many interesting and useful details and shows how problems associated with Suzuki-Miyaura coupling can best be addressed. There has already been wide industrial uptake of the new procedures and insights. The broad nature and clear and succinct style will make the thesis a valuable resource for anyone working in synthesis, organometallic chemistry, or in homogeneous catalysis.

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