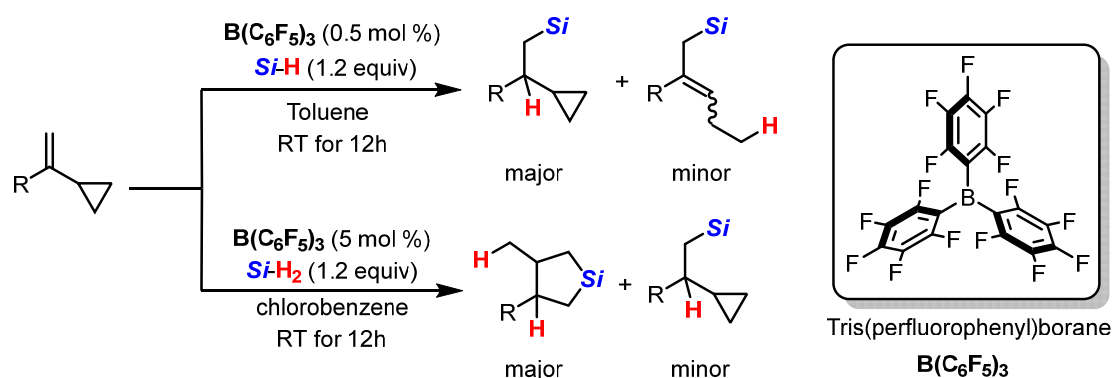


$B(C_6F_5)_3$ -catalyzed hydrosilylation and cyclization of vinylcyclopropanes with silanes

Peng-Wei Long - WS19 batch

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$B(C_6F_5)_3$ -catalyzed hydrosilylation and cyclization of vinylcyclopropanes with silanes have been found under mild reaction conditions. There was an exclusive addition of silanes across carbon-carbon double bond with little or no ring opening observed when the reactions were carried out under a lower load of catalyst at room temperature in toluene. Furthermore, as the amount of catalyst was increased to a high level, five-membered rings were also isolated with high selectivity in chlorobenzene.