

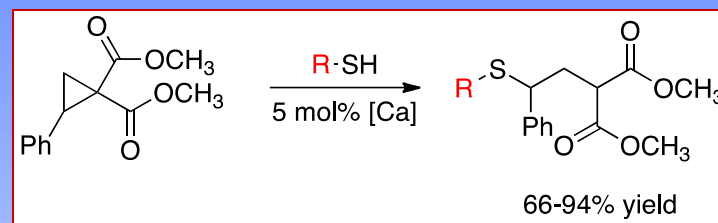
# Calcium Catalyzed Homologous Conjugate Addition Reactions

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Our group is developing catalytic homologous conjugate addition (HCA) reactions, additions to electron-deficient cyclopropanes, utilizing calcium(II) complexes to facilitate the reactions.

Initial results show that electron-rich and electron-deficient thiophenol derivatives and alkyl thiols readily add to the representative cyclopropane with good to excellent yields.



Expansion of the methodology to differentially substituted cyclopropanes has led to the synthesis of a variety of  $\gamma$ -sulfanyl malonates in very good yield.

