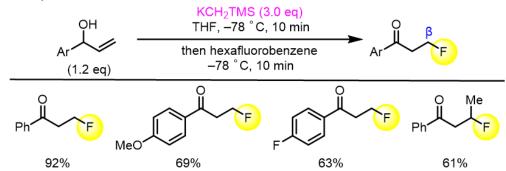
## ヘキサフルオロベンゼンを求電子的フッ素化剤として利用したアリルアルコールを基質とするβ位フッ素化ケトンの合成

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Synthesis of β-Fluorinated Ketones from Allylic Alcohols Using Hexafluorobenzene as an Electrophilic Fluorinating Reagent (*Faculty of Engineering, Gifu University*) OYutaka Narita, Rikuo Hayashi, Masahiro Sai

Carbon–fluorine bonds are frequently seen in pharmaceuticals and agrochemicals, and thus the development of efficient methods to introduce fluorine atoms is an important theme in organic chemistry. As for the fluorination of carbonyl compounds,  $\alpha$ -fluorination through the reaction of enolates with electrophilic fluorinating reagents has been well-established. In contrast, there are few examples of  $\beta$ -fluorination of carbonyl compounds. We have recently reported that treatment of 1-arylallylic alcohols with (trimethylsilyl)methylpotassium generates the corresponding potassium homoenolate equivalents through abstraction of the OH proton and the hydrogen atom at the C1 position. In this study, we achieved the synthesis of  $\beta$ -fluorinated ketones from allylic alcohols by the reaction of in-situ-generated potassium homoenolate equivalents with hexafluorobenzene.

Keywords: Potassium; Allylic Alcohols; Homoenolates; Electrophilic Fluorination



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