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RhCl(CO)(PPh<sub>3</sub>)<sub>2</sub> catalyzed  $\alpha$ -alkylation of ketones with alcohols

Rui Wang, Lina Huang, Zhengyin Du, Hua Feng

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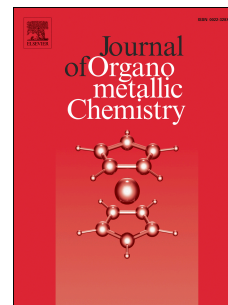
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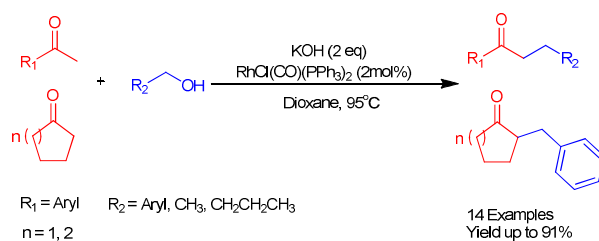


## Graphical Abstract

$\text{RhCl}(\text{CO})(\text{PPh}_3)_2$  catalyzed  $\alpha$ -alkylation of ketones with alcohols

Rui Wang, Lina Huang and Zhengyin Du\*

A simple and efficient method for  $\alpha$ -alkylation of ketones with primary alcohols catalyzed by  $\text{RhCl}(\text{CO})(\text{PPh}_3)_2$  without additional additives under mild conditions is developed. It has a wide substrate scope, a high atom-efficiency and chemoselectivity. It is an environmentally friendly method to build C-C bond because water is the only byproduct.



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