2001 C-C bond formation

C-C bond formation

O 0282 23 - 056 Suzuki Arylation of 1,1-Dibromo-1-alkenes: Synthesis of Tetra-Substituted Alkenes. — Tetrasubstituted alkenes (III) and (VI) are prepared from 1,1-dibromo-1-alkenes (I) and (IV) in a very efficient manner using Suzuki conditions. — (BAUER, ANNETTE; MILLER, MICHAEL W.; VICE, SUSAN F.; MCCOMBIE, STUART W.; Synlett (2001) 2, 254-256; Dep. Chem. Res., Schering-Plough Res. Inst., Kenilworth, NJ 07033, USA; EN)

$$\begin{array}{c} \text{excess } \text{Ar}^1 - \text{B}(\text{OH})_2 \text{ (II)}, \text{Na}_2\text{CO}_3 \\ \text{Br} \\ \hline \\ \text{I} \\ \text{III} \\ \text{excess } \text{Ar}^1 - \text{B}(\text{OH})_2 \text{ (III)}, \text{Na}_2\text{CO}_3 \\ \text{b } \text{Y} : -\text{CO}^-; \text{Ar}^1 : -\text{Ph} \\ \text{b } \text{b } \text{Y} : -\text{CO}^-; \text{Ar}^1 : -\text{ToI} \\ \text{85\%} \\ \text{Ar}^1 \\ \text{c } \text{Y} : \text{Ar}^1 : -\text{CO}^- - \text{Me} \\ \text{81\%} \\ \text{d } \text{Y} : -\text{NH} - \text{CO}^-; \text{Ar}^1 : -\text{Ph} \\ \text{92\%} \\ \text{e } \text{Y} : \text{O}^-; \text{Ar}^1 : -\text{Ph} \\ \text{O}^-$$

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