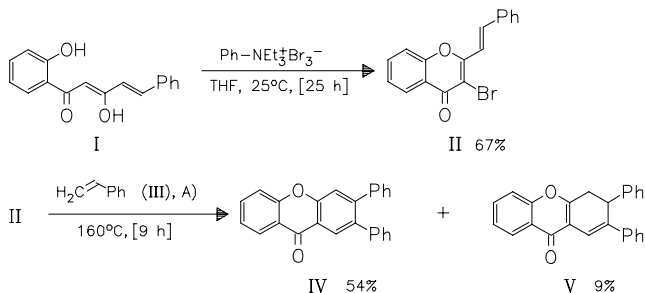


Xanthene derivatives

R 0360

20- 131

A Novel and Efficient Route for the Synthesis of Hydroxylated 2,3-Diaryl-xanthenes. — 3-Bromo-2-styrylchromones (II) and (VI) are prepared as key compounds in the synthesis of 2,3-diaryl-xanthenes such as (IV) and (VIII) via Heck cross-coupling reaction with styrenes. These products are accompanied by small amounts of semioxidized intermediates [cf.(V)]. Final demethylation gives the desired title compounds [cf.(IX)], required for further evaluation of the antioxidant activity in the xanthone class. — (SANTOS, C. M. M.; SILVA*, A. M. S.; CAVALEIRO, J. A. S.; Synlett 2007, 20, 3113-3116; Dep. Chem., Univ. Aveiro, P-3810 Aveiro, Port.; Eng.) — Mais



A): Et₃N, 5 mol% Pd(PPh₃)₄/10 mol% PPh₃ (cat.), NMP

