Imidazole derivatives

R 0190

05- 109

Copper Carbenoid Mediated N-Alkylation of Imidazoles and Its Use in a Novel Synthesis of Bifonazole. — Imidazole derivatives are N-alkylated by the $Cu(acac)_2$-mediated reaction with α-diazocarbonyl compounds or with diazoalkanes generated in situ from the corresponding p-toluenesulfonyl hydrazones. The procedure avoids isolation of potentially hazardous diazoalkane intermediates. It can also be applied to the synthesis of the antifungal agent bifonazole (Xb). — (CUEVAS-YANEZ*, E.; SERRANO, J. M.; HUERTA, G.; MUCHOWSKI, J. M.; CRUZ-ALMANZA, R.; Tetrahedron 60 (2004) 42, 9391-9396; Inst. Quim., Univ. Nac. Auton. Mex., Coyoacan, 04510 Mexico, Mex.; Eng.) — S. Adam