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N-(Diphenylmethylene)glycinate, Enolates, 1,3-Dipoles, [2+3] Cycloaddition, X-Ray Data

Enolates of *ortho*-palladated N-(diphenylmethylene) Schiff bases from glycine esters $(R_3P)Pd[(C_6H_4)(C_6H_5)C{=}N\text{-}C(R'){=}CO_2R]$ were isolated and have been shown to be ambivalent 1,3-dipoles in [2+3] cycloadditions. Tetracyanoethene, dimethyl acetylene dicarboxylate, dimethyl azodicarboxylate, thiobenzophenone, thione-S, 4-phenyl-1,2,4-triazoline-3,5-dione, diphenyl-ketene and phenylisocyanate are added at the palladium and the enolate (α-C) carbon atoms, whereas methyl propiolate, methyl acrylate, and the methyl esters of maleic and fumaric acid form [2+3] cycloadducts with the α-carbon and the imino carbon atoms of the enolates under mild conditions. The structures of seven cycloadducts were determined by X-ray diffraction analyses.