

(7) 1,3-Dipolar cycloaddition of benzonitrilium N-phenylimide to didehydropeptides. Abdallah, Magda A.; Albar, Hassan A.; Shawali, Ahmad S. Fac. Sci., Univ. Cairo, Giza, Egypt. Journal of Chemical Research, Synopses (1993), (5), 182-3. CODEN: JRPSDC ISSN: 0308-2342. Journal written in English. CAN 119:181191 AN 1993:581191 CAPLUS (Copyright 2004 ACS on SciFinder (R))

Abstract

Didehydropeptides I (Ar = Ph, 4-MeOC₆H₄, 4-MeC₆H₄, 4-ClC₆H₄, 4-O₂NC₆H₄, 3,4-methylenedioxyphenyl) underwent a regioselective 1,3-dipolar cycloaddn. reaction with benzonitrilium N-phenylimide PhC.tplbond.N+N-Ph (II) to give cycloadducts III. I were obtained by the ring cleavage of (Z)-oxazolones IV or (E)-oxazolones V with H-Gly-OEt.HCl in the presence of Et₃N in DMF. II was generated in situ from PhC(:NNHPh)Cl by treatment with Et₃N.

