

**1,3-Dipolar cycloaddition reactions of benzonitrilium N-phenylimide with 3-(arylmethylene)-5-phenylfuran-2(3H)-ones.** Shawali, Ahmad S.; Farag, Ahmad M.; Algharib, Mohamed S.; Albar, Hassan A.. Fac. Sci., Univ. Cairo, Giza, Egypt. Journal of Chemical Research, Synopses (1993), (2), 80-1. CODEN: JRPSDC ISSN: 0308-2342. Journal written in English. CAN 118:254808 AN 1993:254808 CAPLUS (Copyright 2004 ACS on SciFinder (R))

### Abstract

Treatment of  $\text{PhCCl:NNHPh}$  with base gave the nitrilium imide  $\text{PhC}^+:\text{NN-Ph}$  in situ. 4-Aryl-1,3,8-triphenyl-7-oxa-1,2-diazaspiro[4.4]nona-2,8-dien-6-ones [I; R = (un)substituted Ph] were prepd. by the reaction of  $\text{PhCCl:NNHPh}$  with 3-(arylmethylene)-5-phenylfuran-2(3H)-ones in chloroform in the presence of triethylamine. Hydrolysis of I (R = Ph) gave 1,3,4-triphenyl-1H-pyrazole-5-carboxylic acid (II) in 94% yield.

