## **Turkish Journal of Chemistry**

**Turkish Journal** 

of

Chemistry

Reactions of 4-benzoyl-1,5-diphenyl-1H-pyrazole-3- carboxylic acid chloride with various hydroxylamines and carbazates

Elif KORKUSUZ, İsmail YILDIRIM
Erciyes University, Department of Chemistry, 38039 Kayseri-TURKEY
e-mail: ismaily@erciyes.edu.tr

Keywords Authors



chem@tubitak.gov.tr

Scientific Journals Home Page Abstract: The 1H-pyrazole-3-carboxylic acid 2 was converted via reactions of its acid chloride 3 with various hydroxylamine 4a-f and carbazate derivatives 8a-c into the corresponding novel N-substituted-4-benzoyl-1,5-dipenyl-1H-pyrazole-3-carboxamides 5a-c, N,N-disubstituted-4-benzoyl-1,5-diphenyl-1H-pyrazole-3-carboxylates 6d,e, 4-benzoyl-N-{[(4-benzoyl-1,5-diphenyl-1H-pyrazol-3-yl)carbonyl]oxy}- N-methyl-1,5dip- henyl-1H-pyrazole-3-carboxamide (7), and 4-benzoyl-N'-(alkoxycarbonyl)-1,5-diphenyl-1H-pyrazole-3-car- bohydrazides 9a,b and 10, respectively, in good yields (65%-90%). The reactions of 3 with 4 and 8 in xylene for 8-15 h with catalytic amounts of base led to the formation of the products 5-7, 9, and 10. The structures of all new synthesized compounds were established by the <sup>13</sup>C-NMR, <sup>1</sup>H-NMR, IR spectroscopic data, and elemental analyses.

**<u>Key Words:</u>** Pyrazole-3-carboxylic acid, nucleophilic substitution, furan-2,3-dione, carbazate, hydroxylamine

Turk. J. Chem., 34, (2010), 859-868.

Full text: pdf

Other articles published in the same issue: Turk. J. Chem., vol. 34, iss. 6.