

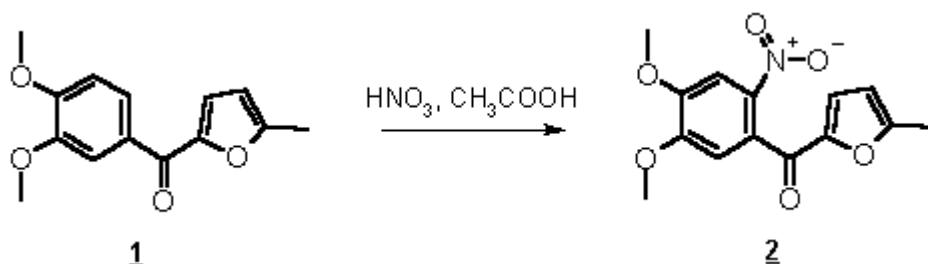
(4,5-Dimethoxy-2-nitrophenyl)-(5-methylfuran-2-yl)methanone**Vladimir V. Mel'chin**

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To continue our investigation into the chemistry of furan derivatives [1, 2], we have synthesized furylphenylketone bearing nitro-group in the ortho-position of benzene ring. We developed reaction conditions for preparation of this compound smoothly and in rather high yield.



To an ice-cooled solution of ketone **1** (1.00 g, 4 mmol) in glacial acetic acid (10 mL) red fuming nitric acid (1 mL) was added dropwise. The reaction mixture was kept at 0 °C for 10-15 min (TLC monitoring) and then poured into water. The precipitate obtained was filtered off and air-dried. Recrystallization from ethanol with charcoal afforded nitroketone **2** as yellow crystals (0.76 g, 65 %).

Mp: 147-148 °C (ethanol).

IR (KBr): 1695, 1640 cm^{-1} .

^1H NMR (CDCl_3 , 60 MHz, ppm): 2.35 (s, 3H, CH_3), 3.97 (s, 3H, OCH_3), 4.03 (s, 3H, OCH_3), 6.14 (d, 1H, $J = 3.2$, 3- H_{Fur}), 6.95 (d, $J = 3.2$, 4- H_{Fur}), 6.98 (s, 1H, H_{Ar}), 7.68 (s, 1H, H_{Ar}).

Anal. calc. for $\text{C}_{14}\text{H}_{13}\text{NO}_6$: C 57.73, H 4.50, N 4.81; Found: C 57.79, H 4.42, N 4.77.

References:

1. Butin, A.V.; Stroganova, T.A.; Lodina, I.V.; Krapivin, G.D. *Tetrahedron Letters* **2001**, *42*, 2031.
2. Butin, A.V.; Abaev, V.T.; Stroganova, T.A.; Gutnov, A.V. *Molecules* **1997**, *2*, 62.

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