

3-Nitropyridin-2-yl hydrazone of 5-Acetyl-3-phenyl-1,2,4-triazine

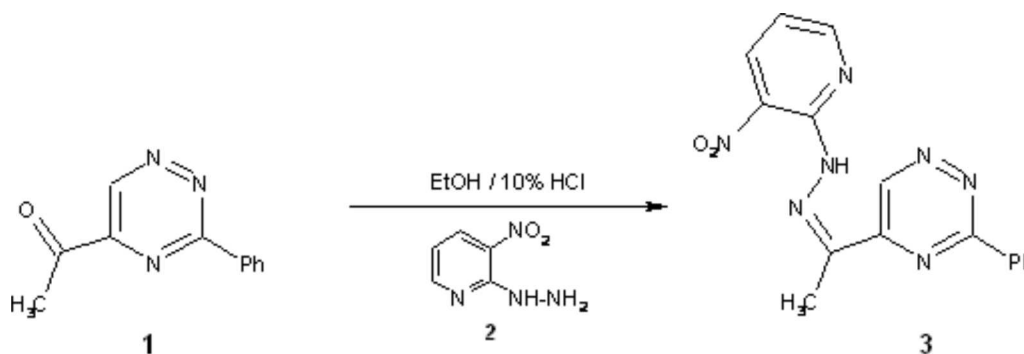
Mariusz Mojzych

Institute of Chemistry, University of Podlasie,
ul. 3 Maja 54, 08-110 Siedlce, Poland
e-mail: mojzych@ap.siedlce.pl

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In continuation of previous work on the polyfunctionally substituted 1*H*-pyrazolo[4,3-*e*][1,2,4]triazine [1,2] we have reported here preparation of 3-nitropyridin-2-yl hydrazone of 5-acetyl-3-phenyl-1,2,4-triazine **3** being valuable intermediate for the synthesis of nitro derivative of this ring system.



To a solution of 5-acetyl-3-phenyl-1,2,4-triazine **1** (199 mg, 1 mmol) [3] and 3-nitropyridin-2-ylhydrazine **2** (185 mg, 1.2 mmol) in ethanol (30 ml) 10% HCl (0.5 ml) was added. The resulting reaction mixture was heated at reflux for 5 min and then was stirred at room temperature for 30 min. After that time the solvent was concentrated *in vacuo*. The solid was collected by filtration, washed with water and recrystallized from DMSO/water (1:1) to give compound **3** in 82% yield.

Melting Point: 255 °C.

¹H-NMR (200 MHz, d₆-DMSO): δ = 2.53 (s, 3H); 7.21-7.27 (m, 1H); 7.62-7.67 (m, 3H); 8.44-8.54 (m, 3H); 8.65-8.68 (m, 1H); 9.56 (s, 1H); 11.36 (s, 1H).

IR (CHCl₃ film, cm⁻¹): 3316; 3069; 1598; 1530; 1500; 1366; 1264; 1199; 1053; 754; 697.

MS-EI (*m/z*, %): 335 (1) [M⁺]; 189 (30); 180 (9); 179 (100); 157 (6); 143 (8); 133 (5); 128 (7); 103 (7); 102 (4); 77 (5).

HR-MS: Calculated for C₁₆H₁₃N₇O₂: 335.11307. Found: 335.11339.

References:

1. Rykowski, A.; Mojzych, M.; Karczmarzyk, Z. *Heterocycles*, **2000**, 53, 2175.
2. Mojzych, M.; Rykowski, A. *Polish J. Chem.*, **2003**, 77, 1797.
3. Rykowski, A.; Lipińska, T. *Synth. Comm.*, **1996**, 26, 4409.

Sample Availability: Available from MDPI.

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