

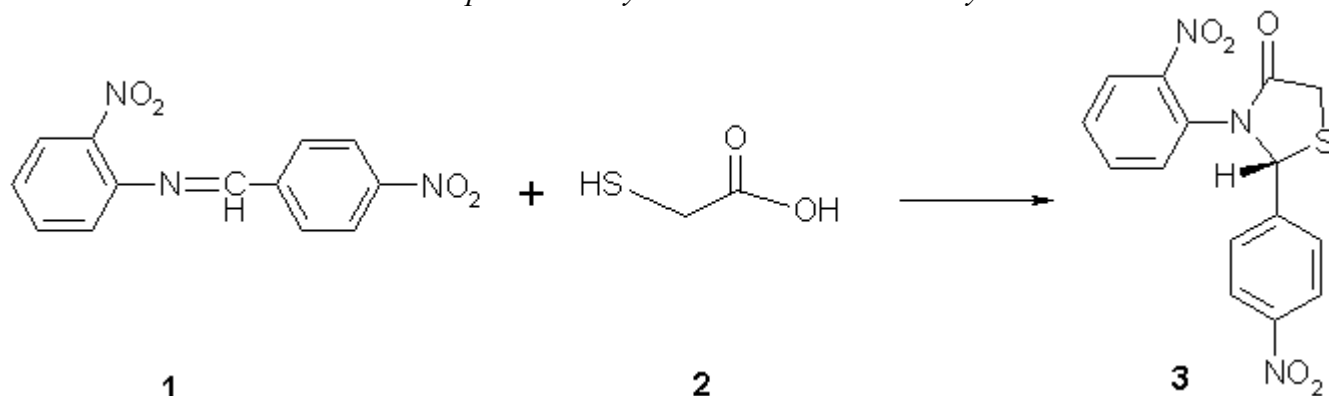
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3-(2-Nitrophenyl)-2-(4-nitrophenyl)-4-thiazolidinone

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The 4-thiazolidinone **3** was prepared from the Schiff base **1** thioglycolic acid **2** [1,2]. A mixture of 4-(Nitrobenzalamino)-(2-nitrobenzen) **1** (3.0 g, 0.011 mmol) and thioglycolic acid **2** (1.02 g, 0.011 mol) was refluxed for 15 hours at 110-120 °C in an oil bath. Sodium bicarbonate solution was added for removal of excess thioglycolic acid. The product was isolated and recrystallized from ethanol as orange crystals (3.52 g, 92%).

Mp. 70-72 °C (EtOH, uncorrected).

UV I_{max} (nm; Acetone)/ε (dm³.mol⁻¹.cm⁻¹) 280/3185, 401/6107.

IR (KBr) 1690 (C=O), 700 (C-S-C).

¹H-NMR (400 MHz; CDCl₃; Me₄Si) δ_H3.09 (2H, CH₂), 6.07 (1H, d, S-CH), 6.71 (2H, dd, J = 7.6 Hz), 6.81 (2H, d, J = 8.3 Hz), 7.36 (2H, d, J = 7.33 Hz), 8.11 (2H, d, J = 8.5 Hz).

¹³C NMR (100 MHz; CDCl₃): 20.0 (CH₂), 51.8 (C-S), 111.83, 116.1, 116.97, 118.75, 126.22, 135.65, 144.65, 196.24.

Anal.Calc. for C₁₅H₁₁N₃O₅S (345.339): C 52.17, H 3.21, N 12.17; found : C 52.33, H 3.11 , N 11.98.

References

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Sample availability: available from the authors and MDPI.

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