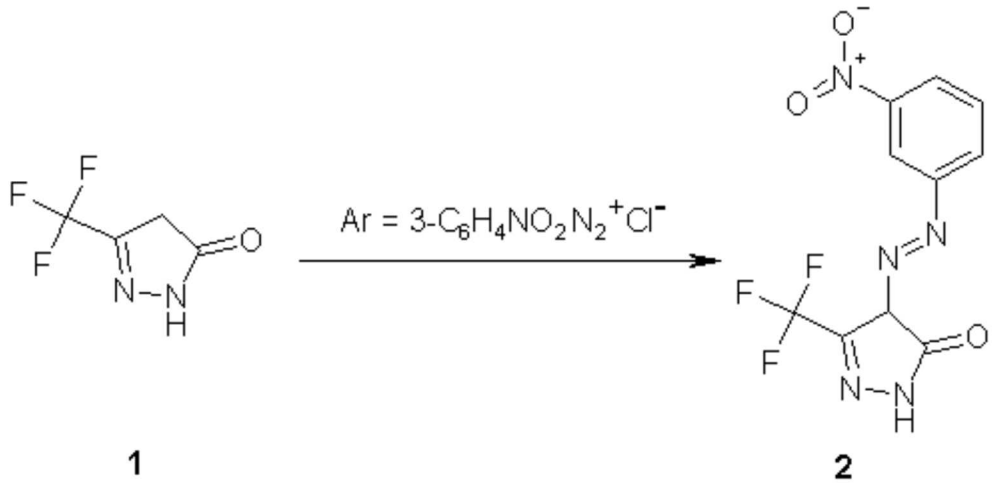
Molecules **2001**, *6,* M261

4-(3-Nitrophenylazo)-5-trifluoromethyl-2,4-dihydropyrazol-3-one

Hussein F. Zohdi[1]*, Nora M. Rateb[2] and A. Z. Haikal[1]

1.Department of Chemistry, Faculty of Science, United Arab Emirates University, P.O.Box 17551 Al-Ain, UAE
E-mail: hussein.zohdi@uaeu.ac.ae
2.Department of Chemistry, Faculty of Science, Cairo University, Giza, Egypt

Received: 5 June 2001 / Accepted: 15 December 2001 / Published: 20 December 2001



To a cold solution of 5-trifluoromethyl-2,4-dihydropyrazol-3-one [1,2] (0.76 g, 5 mmol) in ethanol (25 ml) containing sodium acetate (0.82 g, 10 mol), 3-nitrobenzenediazonium chloride (5 mmol) was added dropwise with stirring at 0-5°C. The reaction mixture was stirred at room temperature for three hours and the precipitated crude product was filtered, washed with water, dried and crystallized from ethanol to give 1.2 g (80%) of **2** as orange crystals.

M.p. 253-255°C.

MS (m/z): 301.

^{1}H-NMR (250 MHz, DMSO-d_6): 2.50(s, 1H, CH); 7.71-8.45(m, 4H, aromatic CH); 12.70(s, 1H, NH).

^{13}C-NMR (75 MHz, $CDCl_3$): 116.65, 124.24(quaternary aromatic carbons); 111.04, 119.99, 122.40, 130.77(4 aromatic CH's); 136.50(q, CF_3); 142.38(C-4); 148.35(C-5); 158.33(CO).

References

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Sample Availability: Available from the authors and from MDPI.

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