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8-Dihydro-3-methyl-7-amino-[1,2,4]triazino[3,4-b][1,3,4]thiadiazine

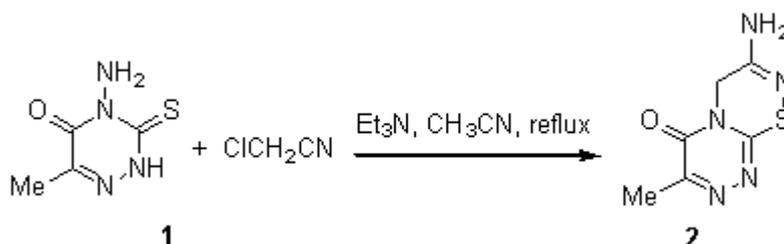
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8-Dihydro-3-methyl-7-amino-[1,2,4]triazino[3,4-b][1,3,4]thiadiazine **2** was prepared by the cyclocondensation of 4-amino-6-methyl-3-thio-1,2,4-triazin-5-one **1** with chloroacetonitrile in the presence of triethylamine in refluxing CH₃CN. Compound **1** (316 mg, 2 mmol) was dissolved in acetonitrile (8 mL) containing triethylamine (0.4 mL, excess). To this solution chloroacetonitrile (0.2 mL, excess) was added. The reaction mixture was refluxed for 5 hrs. The solvent was removed and the residue was subjected to column chromatography using CHCl₃: MeOH 97:3 to afford 24 mg (61%) of **2** as white crystals.

Mp.: 114-115°C.

¹H-NMR (100 MHz, d₆-DMSO): 2.2 (s, 3H, CH₃), 5.45 (s, 2H, CH₂), 6.54 (s, 2H, NH₂, exchangeable with D₂O).

MS: 196 (12), 195 (44), 194 (79), 193 (89), 86 (20), 72 (43), 70 (100), 45 (43).

IR (KBr disc): 3300, 3250, 1690, 1550, 1440, 910, 880.

Reference

1. Dornow, A.; Menzel, H.; Marx, P. *Ber.* **1964**, 2173.

Sample availability : Available from the authors and MDPI.

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