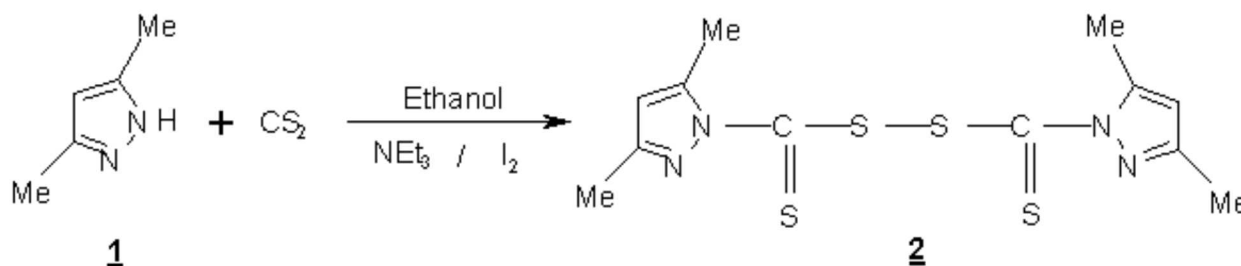


Bis[(3,5-dimethyl pyrazol)-1-yl Thiocarbonyl] Disulfide

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This experiment is performed according to literature method [1-4]. 3,5-Dimethyl pyrazole **1** (2,3 g; 0.024 mole) in ethanol solution and triethylamine (6.65 g, 0.048 mole) were cooled to 5°C under stirring, then carbon disulfide (3.65 g, 0.048 mole) was added to the solution. After 1 hour of stirring, solid iodine (2,8 g, 0.022 mol) was added in portions and stirred until the colour disappeared completely. Then a methanolic solution of iodine was added dropwise until a faint colour persists. Excess of iodine was neutralised with $\text{Na}_2\text{S}_2\text{O}_3$ solution. The product was extracted with diethyl ether, washed thrice with water, dried over Na_2SO_4 , filtered, and diethyl ether was evaporated at room temperature to give compound **2** as a white solid. Yield: 93%.

Mp.: $87\text{--}89^\circ\text{C}$ (diethyl ether/hexane: 8/2).

$^1\text{H-NMR}$ (CDCl_3) d (ppm): 2,43 (s, 12H, CH_3); 6,00 (s, 2H, $\text{H}_{\text{pyrazole}}$).

$^{13}\text{C-NMR}$ (CDCl_3) d :193 ppm ($-\text{C}=\text{S}$), 150 (C_3), 148 (C_5), 110 (C_4), 12 (CH_3).

IR (KBr, cm^{-1}): 3000 ($-\text{S-S}-$); 1290 ($\text{C}=\text{S}$).

MS (m/z): 342 [M] $^+$.

U.V.: $\lambda_{\text{max}} = 285 \text{ nm}$ ($-\text{C}=\text{S}$).

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Sample Availability: Available from the authors and from MDPI.

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