Bis[(3-hydroxymethyl-5-methyl pyrazol)-1-yl Thiocarbonyl] Disulfide

Abderrahman El Idrissi, Karim Tebbji and Smaail Radi

Laboratoire de chimie organique-Physique, Faculté des Sciences, Oujda, Morocco. Fax: +212 56 50 06 03. E-mail: Radi@sciences.univ-oujda.ac.ma

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This experiment is performed according to literature method [1-4]. To a solution of bis[(3-methoxycarbonyl-5-methyl pyrazol)-1-yl thiocarbonyl] disulfide 1 (7.3x10^{-2} mol) in dry diethyl ether was added a solution of LiAlH₄ (2.78 g, 7.3x10^{-2} mol) in 10 mL of dry ether. The mixture was stirred for 6h at 30 °C and the product was extracted with CHCl₃ dried over Na₂SO₄ and filtered. The solvent was removed under reduced pressure and the product was dried under high vacuum.

Yield: (70%).

¹H-NMR (DMSO) d (ppm): 2.16 (s, 6H, CH₃); 4.33 (s, 4H, CH₂); 5.86 (s, 2H CH).

¹³C-NMR (CDCl₃) d (ppm): 193 (-C=S), 65 (CH₂-OH).

IR (KBr , cm⁻¹): 3300 (-S-S-); 1240 (C=S).

MS (m/z): 374 [M]^+.

U.V.: lmax = 290 nm (-C=S).

References


Sample Availability: Available from the authors and from MDPI.

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