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6-Methyl-1,3-diphenylpyrazolo[3,4-d]oxazin-4-one

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b-Pyrazolic amino acid [1] (2 mmoles) was dissolved in acetic anhydride [2]. The mixture was heated at 80°C with stirring. The reaction was complete after 2 hours. After cooling, the solvent was evaporated.

The oily residue was dissolved in ether and kept at O°C. A white solid precipitate formed, which was collected by filtration and washed several times with ether. Yield 88%.

Melting point = 134-135 °C.

MS: m/z = 304 (M+1).

IR (KBr, cm⁻¹): 1758 (C=O), 1614 (C=N), 1580 (C=N).

¹H NMR (250 MHz, CDCl₃): 2.57 (s, 3H, -CH₃), 7.45-7.75 (m, 6H, Ar-H), 8.1 (d, 2H, Ar-H, J = 8.25 Hz), 8.3 (d, 2H, Ar-H, J = 8.12 Hz).

¹³C NMR (62.5 MHz, CDCl₃): 22.2 (CH₃) ; 98.26 (C₃a) ; 123.57(2C) ; 128.63(2C) ; 128.93(1C) ; 129.46(2C) ; 130.20(2C) ; 130.54 ; 131.42 ; 138.09 ; 149.6(C₇a) ; 152.56(C₃) ; 156.01(C₆) ; 167.82(C₄).

References


Sample Availability: Available from the authors and from MDPI.

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