

Synthesis of tridentate Nitrogen Ligand : N,N-bis-(3,5-dimethylpyrazol-1-ylmethyl)benzylamine (NNNN)

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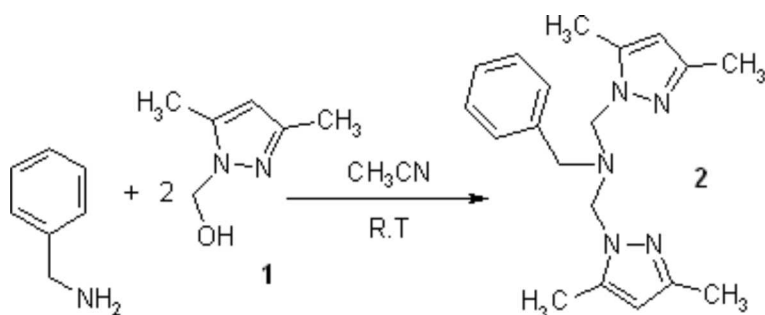
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The product **2** was prepared by the addition of benzylamine (C₆H₅CH₂NH₂) to **1** [1] according to the reported procedure [2]. To a solution of **1** (1.26 g, 10 mmol) in acetonitrile (25 ml) was added benzylamine (0.536 g, 5 mmol) and the mixture was stirred. The stirring was continued at room temperature for 4 days. The residue was precipitated by addition of cold water, purified and dried by hexane and under vacuum, to afford **2** as a white solid (1.08 g, 63%).

Melting point: 72 °C.

IR (KBr, cm⁻¹): 3262 (= C-H aromat); 3080 (CH); 1603 (C=C); 1500, 1472 (C=N); 1507; 1351; 1290; 1230.

¹H-NMR (400 MHz, CDCl₃): δ= 7.4 (s, 5H, Ph); 5.9 (s, 2H, Pyrazol); 5 (s, NCH₂N); 3.9 (s, 2H, Ph-CH₂-N); 2.3 (s, 6H, CH₃); 2.1 (s, 6H, CH₃).

MS (DCI/NH₃, CHCl₃) = Calculated for [M]⁺, C₁₉H₂₅N₅= 323. Found 324 ([M+H]⁺, 92.5%); 228 ([MH - C₅H₇N₂]⁺, 100%); 114 ([C₅H₇N₂+NH₄]⁺, 42.5%).

Acknowledgments

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References

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Sample Availability: Available from the authors and MDPI.

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