Crystal structure of N’-(2-methoxynaphthylidene)-4-dimethylamino benzohydrazide, C_{21}H_{21}N_{3}O_{2}

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Abstract

The compound was prepared by the condensation reaction of 2-methoxy-1-naphthaldehyde (1 mmol, 0.186 g) and 4-dimethylaminobenzohydrazide (1 mmol, 0.179 g) in anhydrous methanol (30 ml) at ambient temperature. Colourless block-shaped single crystals suitable for X-ray structural determination were obtained by slow evaporation of the solution for a week.

Experimental details

H(2) was located from a difference Fourier map and refined isotropically, with the N–H distance restrained to 0.90(1) Å. The remaining H atoms were positioned geometrically and constrained to ride on their parent atoms, with C–H distances of 0.93-0.96 Å, and with \( U_{eq}(H) = 1.2 U_{eq}(C) \) and \( 1.5 U_{eq}(C_{\text{methyl}}) \).

Discussion

Considerable attention has been focused on hydrazones and their medicinal applications [1-5]. The study on the crystal structures of such compounds is of particular interest [6-8]. As a continuation of our work on such compounds, we report herein the crystal structure of the title hydrazone derivative. The molecular struc-
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References


