

**MOLECULAR AND CRYSTAL STRUCTURE OF  
(*E*)-4-CHLORO-*N*-(3,4-DIMETHOXYBENZYLIDENE)ANILINE**

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The reaction of 3,4-dimethoxybenzaldehyde with 4-chloroaniline (1:1 molar ration) leads to the formation of a new Schiff base (*E*)-4-chloro-*N*-(3,4-dimethoxybenzylidene)aniline (**1**) that is successfully obtained and characterized by elemental analyses, FT-IR and <sup>1</sup>H NMR spectroscopy, and single crystal X-ray diffraction. The strong absorption band at 1620 cm<sup>-1</sup> in the FT-IR spectrum and a singlet signal at 8.32 ppm in the <sup>1</sup>H NMR spectrum of **1** clearly proves the presence of the C=N (azomethine) group. Single crystal X-ray analyses reveal that the title compound adopts an *E* configuration with respect to the C=N bond.

**Keywords:** single crystals, growth, spectroscopy, crystallography.