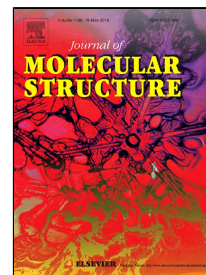


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New asymmetric and symmetric 2-((pyridin-4-yl)methylenamino)-3 aminomaleo nitrile and 2,3-bis((pyridin-4-yl)methylenamino)maleonitrile Schiff bases: Synthesis, experimental characterization along with theoretical studies



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New asymmetric and symmetric 2-((pyridin-4-yl)methylenamino)-3 aminomaleonitrile and 2,3-bis((pyridin-4-yl)methylenamino)maleonitrile Schiff bases: Synthesis, experimental characterization along with theoretical studies

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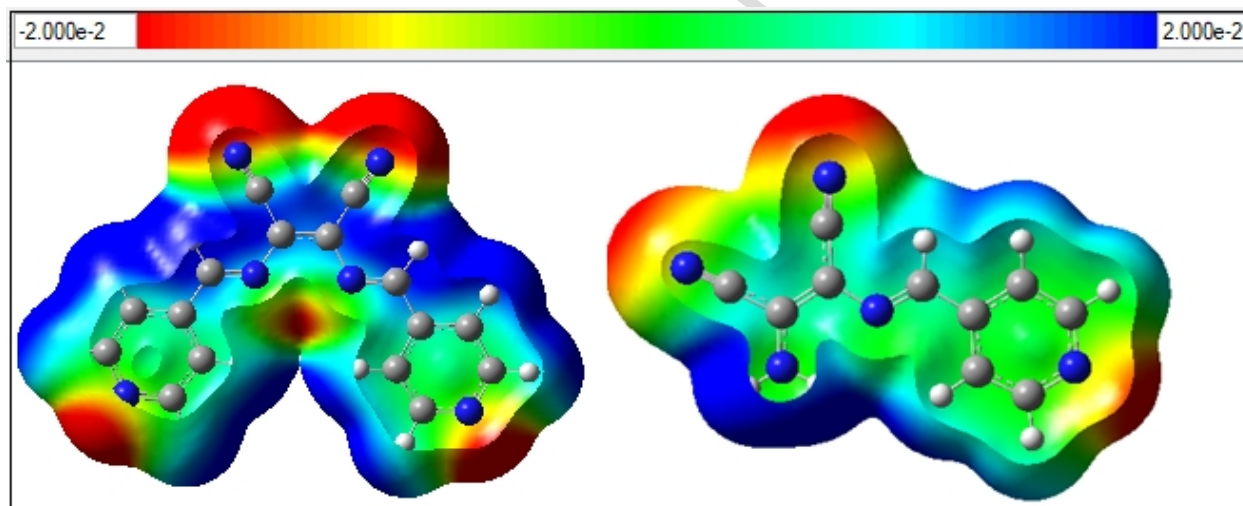
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Keywords: Schiff base, X-ray diffraction, DFT calculations, 4-Pyridine carboxaldehyde

Graphical Abstract



Two new Schiff bases 2-((pyridin-4-yl)methylenamino)-3aminomaleonitrile and 2,3-bis((pyridin-yl)methylenamino)maleonitrile were synthesized and characterized. The optimized structures, vibrational frequencies and ¹H/¹³C NMR spectral data obtained theoretically were found to be in good agreement with experimental data.

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