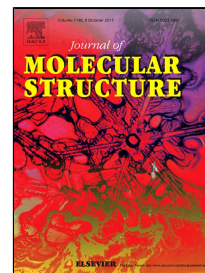


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Synthesis, spectroscopic, computational (DFT/B3LYP), AChE inhibition and antioxidant studies of imidazole derivative



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Highlights

- Synthesis and X-ray crystallographic analysis of 3a,8a-dihydroxy-8-oxo-1,3,3a,8a-tetrahydroindeno[1,2-*d*]imidazol-2(1*H*)-iminium chloride, an imidazole derivative.
- Experimental and theoretical spectroscopic analysis (FT-IR, UV, ¹H and ¹³C NMR) of title compound.
- Enzyme inhibition and antioxidant study of synthesized imidazole.
- Molecular docking and Hirshfeld surface analysis.

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