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Crystal structure of 7-chloro-2,3,3a,4,9,9a-hexahydro-3,9,9-trimethyl-5-nitro-1H-cyclopenta[*b*]quinoline

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Abstract : The title compound C₁₆ H₁₉ Cl N₂ O₂ is the product of reaction between 4-chloroaniline and melonal in the presence of cupric nitrate and HCl. The product is the resultant of nitration of the aromatic ring and electrophilic aromatic cyclization. The heterocyclic ring at the center adopts a half-chair conformation and the five-membered ring has an envelope conformation. The crystal structure is stabilized by intra-molecular hydrogen bond. The molecular structure is stabilized by an intra-molecular N—H···O hydrogen bond, with an S(6) ring motif.

Key words: crystal structure, quinolone, N—H···O hydrogen bond.

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