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Crystal structure analysis of Methyl-1-methyl-8-nitro-3-phenyl-1,2,3,9b-tetrahydrothiochromeno[4,3-b]pyrrole-3a(4H)-carboxylate

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Abstract : The title compound, $C_{20}H_{20}N_2O_4S$, has been synthesized and characterized by X-ray crystallography. The structure is solved in monoclinic with space group C2/c with a = 22.368(3)Å, b = 8.1187(10)Å, c = 20.185(3)Å, β = 94.472(6)°, V = 3654.4(9) ų, Z = 8. The pyrrole ring adopts an envelope conformation with C9 atom at the flap, deviating from the mean plane defined by the plane of the other ring atoms by 0.708Å. Crystal data were collected using BRUKER SMART APEX II CCD X-ray diffractometer. The structure was solved by direct methods and refined on F² by full-matrix least-squares procedures to the final R₁ of 0.040 using SHELXL programs.

Key Words: Pyyrole, thiochromene and crystal structure.

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