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Synthesis and Crystal structure Analysis of 2-(6-dimethyl)3,5-dicarboxamide 4-(4-methoxyphenyl) N3,N5-bis(3-chloro-4-fluorophenyl) pyridine using Hirshfeld Surface Analysis

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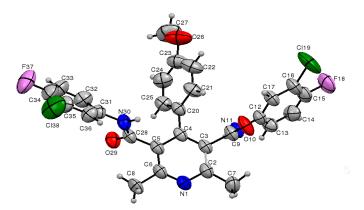
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ABSTRACT

The title compound, $C_{28}H_{22}Cl_2F_2N_3O_3$, crystallizes in the triclinic crystal system and space group P \overline{I} with cell parameter, a = 9.5780(10) Å, b = 10.3730(18) Å, c = 4.493(2) Å, $\alpha = 89.739(4)^\circ, \beta = 70.940(7)^\circ, \gamma = 10.3730(18)$ 82.402(9)°, V = 1347.9(3) Å³ for Z = 2. The structure exhibits intra and inter-molecular hydrogen bonds of the type C-H···O and N-H...O.

Graphical Abstract:



The ORTEP diagram of the compound

Keywords: Synthesis, Crystal structure Analysis, Hirshfeld Surface Analysis.