



The C-H...[FBF₃]⁻ hydrogen bonds as origin of the linear polytetrameric self-organisation of Schiff base containing substituted 1,2,4- triazole.

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Streszczenie

The first crystal structure involving Schiff base containing 4-substituted 1,2,4-triazolium cation is reported. The neutral (4-chloro-benzylidene)-[1,2,4] triazol-4-yl-amine (T) and protonated (HT⁺) molecules are connected by the strong [N-H...N]⁺ hydrogen bond forming the discrete dimers. The pair of the dimers and two BF₄⁻ ions are linked via the weak C-H...F interactions and create tetrameric units. BF₄⁻ ions mediate between succeeding tetramers and as a result double ribbons along [110] are formed. No intermolecular, directional interactions between neighbour ribbons in the crystal were found.

Słowa kluczowe

crystal structure, 4-substituted-1, molecule, 4-triazoles, hydrogen bond