## Experimental Electron Density Distribution of bis(thiosemicarbazide)-zinc(II) dinitrate

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Over three hundred transition metal complexes with thiosemicarbazide-based (TSC) ligand have been characterized by classical X-ray diffraction and seem to play a role in supramolecular chemistry [1]. In addition, a great number of TSC derivates present a very wide of potent pharmacological application [2, 3], while two of them (3-AP) and (5-HP) are used in clinical phase I or II against ribonucleotide reductase [4]. Understanding the interactions between the organic part and the divalent cation is essential in that case, since the mechanism involves a chelate compound with a divalent cation. Here, we present the electronic and electrostatic properties of the most simple TSC ligand coordinated with zinc(II). Cation behavior will be discussed in comparison with a zinc aspirinate compound [5].

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