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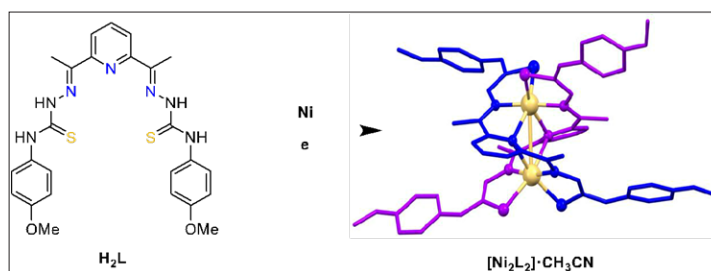
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## A Metallohelical Nickel Complex Derived from a Bisthiosemicarbazone Ligand

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Metallo-supramolecular Chemistry studies the reversible association of chemical systems by intermolecular bonds. Among the metallo-supramolecular compounds, helicates stand out due to their applications in numerous areas such as chemistry of materials or molecular biology. These compounds are made up of organic ligands wrapped around a central axis defined by the metal centers. Bisthiosemicarbazone ligands are of great interest for the preparation of these helical compounds given their versatility as donor systems and their biological properties.

In this work, a pentadentate  $[N_3S_2]$  bisthiosemicarbazone Schiff base ligand  $H_2L$  has been designed. This ligand turned out to be appropriate for obtaining neutral dihelicate compounds using an electrochemical procedure. The Ni(II) complex obtained shows a  $[Ni_2L_2]$  stoichiometry (Scheme 1). This dihelicate has been characterized by the habitual techniques in solution and solid state, including x-ray diffraction.



**Scheme 1.** Structure of the Ni(II) dihelicate derived from the bisthiosemicarbazone ligand  $H_2L$ .

### Biography:

Isabel Velo Helena received her BSc and MSc degree at University of Santiago de Compostela (2018 and 2019, respectively). She is currently doing her PhD in Metallo-supramolecular Chemistry at the Department of Inorganic Chemistry, University of Santiago de Compostela.