

**Bis{(Z)-[(E)-2-(pyridin-2-ylmethylidene)hydrazin-1-ylidene][(pyridin-2-yl)methylsulfanyl]methanethiolato}nickel(II)**

ABSTRACT

The title compound, [Ni(C<sub>13</sub>H<sub>11</sub>N<sub>4</sub>S<sub>2</sub>)<sub>2</sub>], was obtained by the reaction of S-2-picolylidithiocarbamate and pyridine-2-carbaldehyde with nickel(II) acetate. The NiII atom is located on a twofold rotation axis and is bonded to four N atoms at distances of 2.037 (8) and 2.109 (9) Å, and to two S atoms at a distance of 2.406 (3) Å, leading to a distorted octahedral coordination. The angle between the mean planes of the coordinating moieties of the two symmetry-related tridentate ligands is 83.3 (2)°. In the crystal, complex molecules are linked by weak C - H...S hydrogen bonds,  $\pi$ - $\pi$  interactions between the pyridine rings [centroid-centroid distance = 3.775 (9) Å] and C - H... $\pi$  interactions. The hydrogen-bonding interactions lead to the formation of layers parallel to (010);  $\pi$ - $\pi$  interactions link these layers into a three-dimensional network.

**Keyword:** Single-crystal X-ray study.