

عنوان مقاله:

Synthesis, Spectroscopy and X-ray Crystallography Structure of Pyridine 4-Carbaldehyde Semicarbazone Schiff Base Ligand

محل انتشار:

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خلاصه مقاله:

In this work, pyridine 4-carbaldehyde semicarbazone Schiff base ligand (HL) was synthesized with condensation of pyridine 4-carbaldehyde and semicarbazide hydrochloride in reflux method. The HL was characterized using the CHN elemental analysis, FT-IR, UV-Vis, and ¹H NMR spectroscopy. The single crystals of HL prepared and used for the X-ray crystallography. Single-crystal X-ray diffraction revealed that, HL crystallized in a triclinic system with the space group P-1. The FT-IR spectra and X-ray crystallography results suggested that the HL ligand is in keto form.

کلمات کلیدی:

Semicarbazone, Schiff base ligand, crystal structure, Spectroscopy

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