

عنوان مقاله:

A New Imide-pyrazine Zinc(II) Binuclear Complex; In Situ Synthesis and Crystal Structure Determination

محل انتشار:

فصلنامه شیمی معدنی, دوره 6, شماره 2 (سال: 1401)

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خلاصه مقاله:

A new zinc(II) binuclear complex, [ZnY(µ-DPzCA)(Y-MPzCI)CIP] (1) (where DPzCA is N-(Y-pyrazylcarbonyl)-Ypyrazinecarboxamidate anion and Y-MPzCI is methyl pyrazine-Y-carboximidate), was synthesized from the reaction of ZnClY.YHYO and Y-cyanopyrazine in methanolic solution at 50 °C. This complex was thoroughly characterized by elemental analysis (CHN-O), IR, Uv-Vis, \(\text{IH-NMR}\) spectroscopy and its structure have been determined by the singlecrystal X-ray diffraction. The spectroscopic investigations and X-ray structural analysis indicated that by methanolysis and in the presence of ZnClY.YHYO salt the Y-cyanopyrazine ligand converts to methyl pyrazine-Y-carboximidate. Furthermore, the bis(Y-pyrazinecarbonyl)amidate anionic ligand have been prepared from Y-cyanopyrazine in the .presence of ZnClY.YHYO salt in methanolic solution

كلمات كليدى:

-۲) .N., .N. Prazine, .., Methyl pyrazine کر. .., Methyl pyrazine کرد. .., N-۲) Vrystal structure, ... Pyrazylcarbonyl)-Y-pyrazinecarboxamidate

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