



Monodentate coordinated chromate(VI) ion in $[\text{Cu}(\text{phen})_2\text{OCrO}_3](\text{phen})_{0.5}\cdot 4\text{H}_2\text{O}$ completing the square pyramidal geometry of the copper(II) in the solid state.

Autorzy

Agnieszka Wojciechowska

M. Daszkiewicz

Zbigniew Staszak

M. Boczar

Julia Jezierska

Maria Cieślak-Golonka

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Novel copper(II) complex of the formula $[\text{Cu}(\text{phen})_2\text{OCrO}_3](\text{phen})_{0.5}\cdot 4\text{H}_2\text{O}$ (1) (phen = 1,10-phenantroline) was prepared in the crystalline form and characterized by X-ray diffraction and spectroscopic methods (IR-FIR, NIR-Vis-UV, EPR). In the solid state, the CuN_4O chromophore adopts a slightly distorted square-pyramidal geometry around the Cu^{2+} ion with a magnitude of a distortion parameter $\tau = 0.14$. The chromate unit in (1) was found to be a monodentate.

Słowa kluczowe

atom, 10-phenantroline, Chromate anion, Cooper(II) complex, X-ray diffraction, NIR-Vis-UV spectroscopy, Gaussian analysis

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