

Synthesis and structural characterization of the novel unusual oxido-bridged rhenium complex with Re atoms in two different coordination environments.

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A new binuclear mixed-valence complex $[\text{ReCl}_4(\text{py})(\mu\text{-O})\text{Re}(\text{py})_4\text{Cl}]\cdot 2\text{py}$ was obtained by solvothermal synthesis in a Berghoff autoclave. It has been studied by IR, reflectance spectra, TGA and X-ray measurements, which support the assumption, that two Re centres with different coordination environments are present. Most plausible, yet not unambiguous oxidation state assignment is $\text{Re}^{\text{III/IV}}$.

Słowa kluczowe

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