

Crystal structure and magnetic properties of hexachlororhenates(IV) with aromatic amine cations.

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Streszczenie

Complexes of the form $(AH)_2ReCl_6$ ($A=Py, Qy$) are characterized using X-ray studies and magnetic measurements over the 1.72–300 K temperature range. The pyridine and quinoline salts crystallize in the triclinic system and the space group $P\bar{1}$. All compounds indicating the presence of antiferromagnetic interactions and the magnetic susceptibility curves exhibits the maximum at 4.25 K for $(PyH)_2ReCl_6$ and at 3.57 K for $(QyH)_2ReCl_6 \cdot 2H_2O$. Their octahedral $ReCl_6^{2-}$ anions are packed with planar amine cations so that the octahedra form alternating layers with the organic moieties, and the usual bond lengths and angles are maintained.

Słowa kluczowe

Rhenium(IV), Magnetism, X-ray study, Hydrogen bonds

Adres publiczny

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