

Crystal structure of pyridinium pentachloro(pyridine)rhenate(IV), (C₅H₆N)(C₅H₅N)ReCl₅.

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Rok wydania

2003

Czasopismo

Zeitschrift für Kristallographie
- New Crystal Structures

Numer woluminu

218

Strony

207-208

DOI

10.1524/ncrs.2003.218.2.207

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Transition metal complexes with aromatic amines ligands have been discussed in recent reviews [2-4]. Rhenium(IV) complexes with aromatic amine in the coordination sphere indicate antiferromagnetic interactions [5]. The title compound has slightly distorted octahedral environment around the Re atom. The bonds lengths are $d(\text{Re}-\text{N}) = 2.17(1) \text{ \AA}$, $d(\text{Re}-\text{Cl}1) = 2.352(3) \text{ \AA}$, $d(\text{Re}-\text{Cl}2) = 2.355(3) \text{ \AA}$ and $d(\text{Re}-\text{Cl}3) = 2.357(4) \text{ \AA}$. The plane of pyridine ring intersects the plane formed by the Re and four chlorine atoms. In the 010 direction the orientation of the molecules shows a pseudo layered structure. The ReCl_5 1- moieties alternate with pyridine situated in the layers.

Adres publiczny

<https://doi.org/10.1524/ncrs.2003.218.2.207>