

Structure of triammonium *fac*-trichloridotrioxidorhenate(VII) chloride with C_{3v} crystallographic symmetry of the complex anion.

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Streszczenie

The unstable crystals of triammonium *fac*-trichloridotrioxidorhenate(VII) chloride have been obtained from ammonium rhenate(VII) solution in concentrated hydrochloric acid. The crystal structure consists of *fac*-trichloridotrioxidorhenate(VII) anions, chloride anions and ammonium cations. Each *fac*-trichloridotrioxidorhenate(VII) anion and each chloride anion lies in special position of $3m$ site symmetry (cell parameters: $a = 9.026(3)$ Å; $c = 7.690(4)$ Å; space group: $P6_3 mc$). The ammonium cation lies in special position of m site symmetry. The following anion geometrical parameters of the *fac*-trichloridotrioxidorhenate(VII) anion have been obtained: Re–O bond length of $1.720(2)$ Å, Re–Cl bond length of $2.5428(9)$ Å, the bond angles: O–Re–O of $103.5(1)^\circ$ and Cl–Re–Cl of $79.8(1)^\circ$.

Słowa kluczowe

crystal structure, *fac*-Trichloridotrioxidorhenate(VII)

Adres publiczny

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<http://link.springer.com>