Decomposition of pentachloridooxidorhenates(VI) – A still underinvestigated source of rhenium complexes at different oxidation states.

Autorzy

Małgorzata Hołyńska

Tadeusz Lis

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Streszczenie

Studies on decomposition of pentachloridooxidorhenates(VI) are described. The products are rhenium(V) salts with anions $[Re^{V}OCl_4X]^-$ (X = solvent molecule) or $[Re^{V}OCl_4Re^{VII}O_4]^{2-}$ or, under proper conditions, hexachloridorhenates(IV), as well as salts with $[ReOCl_5]^{2-}$ or $[ReOCl_4]^-$ anions. The products are listed and characterized by X-ray diffraction studies, or TGA/IR in the selected cases.

Słowa kluczowe

Rhenium(V), Mixed-valence complexes, X-ray diffraction studies, TGA, IR

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