Synthesis and characterization of caesium tetrachlorouranate(III) tetrahydrate.

Autorzy

Mirosław Karbowiak

Janusz Drożdżyński

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Streszczenie

A new U(III) compound of the formula $CsUCl_4 \cdot 4H_2O$ has been synthesized, and some of its structural, spectroscopic and magnetic properties have been determined. The complex chloride belongs to the monoclinic system with , , , β = 99.28° and Z = 2. Magnetic susceptibility measurements were carried out by the Faraday method in the 4.2–300 K temperature range. The Curie-Weiss law is followed in the 180–300 K region with the paramagnetic constants μ_{eff} = 3.27 B.M. and θ = 29 K. The IR and electronic spectra of the compound in the solid state were recorded in the 80–4000 cm^{-1} and 4000–25 000 cm^{-1} absorption ranges respectively and are discussed.

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