



Crystal structure of $\text{CsUCl}_4 \cdot 3\text{H}_2\text{O}$.

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Streszczenie

Dark red-brown $\text{CsUCl}_4 \cdot 3\text{H}_2\text{O}$ crystallizes in the monoclinic crystal system ($a = 711.6(1)$ pm, $b = 867.2(2)$ pm, $c = 807.1(2)$ pm; $\beta = 99.28(3)^\circ$, space group $P2_1m$, $Z = 2$). Uranium has a coordination number of nine (tricapped trigonal prism) consisting of six chlorine atoms and three oxygen atoms (representing water) with mean distances of 295.7 and 255.2 pm respectively. Caesium is surrounded by eight chlorine atoms in the shape of a distorted cube which is capped by two water ligands, the mean Cs-Cl distance being 360.2 pm.

Adres publiczny

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