Calcium chloride rhenate(VII) dihydrate.

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The crystal structure of calcium chloride rhenate(VII) dihydrate, $CaCl(ReO_4)\cdot 2H_2O$, investigated at 85 K, consists of calcium cations, chloride anions, rhenate(VII) anions and water molecules. In the nearly tetrahedral rhenate(VII) anion, all constituent atoms lie on special positions of *m*2*m* (Re) and *m* (O) site symmetries. The Cl^- anion and water O atom lie on special positions of *m*2*m* and 2 site symmetries, respectively. The Ca^{2+} ion, also on a special position (*m*2*m*), is eight-coordinated in a distorted square-antiprismatic coordination mode. The crystal has a layered structure stabilized by Ca—O coordination bonds and O—H···Cl hydrogen bonds.

Adres publiczny

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