

## Diammonium hexakis(thiocyanato- $\kappa$ N)-rhenate(IV) dimethyl sulfone tetra-solvate.

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### Rok wydania

2011

### Czasopismo

Acta Crystallographica  
Section C: Structural  
Chemistry

### Numer woluminu

C67

### Strony

m134-m136

### DOI

10.1107/S0108270111010535

### Kolekcja

Naukowa

### Język

Angielski

### Typ publikacji

Artykuł

### Streszczenie

The title compound,  $(\text{NH}_4)_2[\text{Re}(\text{NCS})_6] \cdot 4\text{C}(\text{H}_3)_2\text{S}$ , was obtained by solvothermal synthesis as part of a project on rhenium thiocyanate catalysts and starting materials for further aggregation to molecular magnets. The compound is the ammonium salt of octahedral hexakis(thiocyanato- $\kappa$ N)rhenate(IV) anions, which lie on centres of inversion. The dimethyl sulfone solvent molecules are involved in  $\text{R}(4)(2)(8)$  and  $\text{D N-H}\cdots\text{O}$  hydrogen-bonded motifs.  $\text{N-H}\cdots\text{S}$  and  $\text{S}\cdots\text{S}$  short contacts are also present. Hydrogen-bonded ammonium-dimethyl sulfone layers alternate with layers formed by the complex anion (with  $\text{S}\cdots\text{S}$  short contacts) parallel to (100).

### Adres publiczny

<http://dx.doi.org/10.1107/S0108270111010535>