



On the origin of oxygen in $\text{Re}_6(\mu\text{-O})_{12}$ core in cubo-octahedral hexanuclear rhenium clusters.

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The origin of oxygen atoms in oxido-bridged cubo-octahedral hexanuclear rhenium clusters $[\text{Re}_6(\mu\text{-O})_{12}\text{L}_6]^+$ (L – aromatic amine) has been investigated thoroughly. We confirmed that water is a crucial agent in the creation of the $\text{Re}_6(\mu\text{-O})_{12}$ core. The reaction of ReI_3 with H_2^{18}O and 3-methylpyridine was carried out resulting in the formation of $[\text{Re}_6(\mu\text{-}^{18}\text{O})_{12}(\text{3-Mepy})_6]\text{I}$ complex.

Słowa kluczowe

Hexanuclear rhenium complex, cluster, Oxidocomplex, crystal structure, ^{18}O isotope

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