



## Synthesis, crystal structure and spectroscopic characterization of heterometallic Cu/Mo complexes obtained under mild conditions.

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### Rok wydania

2018

### Czasopismo

Journal of Molecular  
Structure

### Numer woluminu

1167

### Strony

209-214

### DOI

10.1016/j.molstruc.2018.04.094

### Kolekcja

Naukowa

### Język

Angielski

### Typ publikacji

Artykuł

### Streszczenie

Two novel heterometallic compounds, namely,  $\{[\text{Cu}(5,5'\text{-Me}_2\text{bpy})_2]_2\text{MoO}_4\}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$  (**1**) and  $[\text{Cu}(\text{phen})_2\text{Mo}_2\text{O}_7(\text{phen})] \cdot \{[\text{Cu}(\text{phen})_2]_2\text{MoO}_4\}(\text{NO}_3)_2 \cdot 15\text{H}_2\text{O}$  (**2**), where phen=1,10-henantrolene, 5,5'-Me<sub>2</sub>bpy=5,5'-dimethyl-2,2'-bipyridine, have been isolated under mild conditions. The influence of the copper source and organic ligands on the products composition has been investigated. Both compounds were characterized by elemental, TG/DTA and single crystal X-ray diffraction analyses, IR and EPR spectroscopies.

### Słowa kluczowe

Heterometallic complexes, Molybdate, crystal structure, EPR spectroscopy

### Adres publiczny

<https://doi.org/10.1016/j.molstruc.2018.04.094>

### Strona internetowa wydawcy

<http://www.elsevier.com>

