

## Synthesis, structure and magnetic characterization of the first azido bridged heterotetranuclear chromium-sodium complex.

### Autorzy

Hassan Hosseini-Monfared

Rahman Bikas

Miłosz Siczek

Tadeusz Lis

Ritta Szymczak

Pavlo Aleshkevych

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### Streszczenie

The first mixed-metal azido bridged complex of Cr(III)–Na(I) has been prepared and its structure is determined. Reaction of chromium(III) chloride and sodium azide with bis-[(E)-N'-(1-(pyridin-2-yl)ethylidene)]carbohydrazide (HL) produced the tetranuclear complex  $[\text{Cr}_2\text{Na}_2(\text{L})_2(\text{CH}_3\text{OH})_2(\mu\text{-N}_3)_4(\text{N}_3)_2]$  (**1**) in good yield. The structure is composed of idealized octahedral  $[\text{Cr}^{\text{III}}(\text{N}_5\text{O})]$  cores linked to the octahedral  $[\text{Na}(\text{N}_4\text{O}_2)]$  cores by two bridging azide ligands. Magnetic properties and EPR of **1** were also studied.

### Słowa kluczowe

heterotetranuclear, carbohydrazide, azide, structure, Magnetic properties

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