

## Direct synthesis of linear trinuclear $M_2^{II} Mn^{II}$ complexes with acetate and N—N donor ligands.

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Two novel heterometallic complexes with general formula  $[M_2Mn(OAc)_6L_2]$ , where M = Cd (1), Cu (2) and L = 2,2'-bipyridyl (bpy) for (1), 1,10-phenanthroline (phen) for (2), were obtained using "direct synthesis" approach. Trinuclear molecular structure of the complexes was determined by single crystal X-ray analysis. EPR studies of 2 indicate that the coordination environment in Cu(II) equatorial plane remains unchanged in solution as compared to the initial compound. Due to low volatility of phen the products of its decomposition probably remain on the surface of metal oxides and, therefore, in contrary to previously studied bpy-containing complexes, the compounds with phen are not suitable precursors for binary oxides preparation.

### Słowa kluczowe

manganese, Direct synthesis, crystal structure, EPR study,  
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