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The invention relates to coordination chemistry, in particular to the synthesis of a new cadmium(II) coordination compound with heteroaromatic bis-hydrazones, with photoluminescent properties.

According to the invention, claimed is the compound 2,6-diacetylpyridine-bis(picolinoyl-hydrazone)-(aqua)(nitrate)cadmium(II)-monohydrate nitrate with the formula $[\text{Cd}(\text{H}_2\text{L})(\text{H}_2\text{O})(\text{NO}_3)]\text{NO}_3 \cdot \text{H}_2\text{O}$, wherein H_2L is 2,6-diacetylpyridine bis(picolinoylhydrazone).

The results of the study of photoluminescence showed that the claimed complex emits blue fluorescence with a maximum of 2.8 eV (440 nm), with a luminescence intensity approximately 300 times more pronounced compared to H_2L .

Claims: 1

Fig.: 4