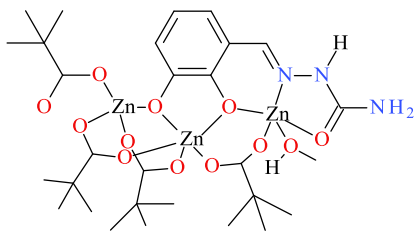


The invention relates to coordination chemistry, in particular to a new trinuclear zinc(II) compound based on 2,3-dihydroxybenzaldehyde semicarbazone poly-dentate ligand and carboxylate coligands, which exhibits photoluminescent properties and can be used as a photoluminescent material.

According to the invention, claimed is the coordination compound with the formula  $[Zn_3(HL)(Piv)_4(CH_3OH)] \cdot CH_3OH$ , which is produced upon interaction of zinc pivalate in methanol with 2,3-dihydroxybenzaldehyde semicarbazone ( $H_3L$ ), with a yield of 70%. According to X-ray diffraction analysis, the compound has the following structure (the methanol solvate molecule is omitted):



The trinuclear compound exhibits photoluminescent properties compared to the initial  $H_3L$ , with the emission band maximum at 500 nm ( $\lambda_{ex} = 337$  nm).

Claims: 2

Fig.: 4