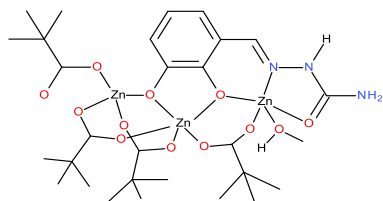


The invention relates to coordination chemistry, in particular to a new trinuclear zinc(II) compound based on the 2,3-dihydroxybenzaldehyde semicarbazone polydentate ligand and carboxylate coligands, which exhibits photoluminescent properties and can be used as a photoluminescent material.

Upon interaction of zinc pivalate in methanol with 2,3-dihydroxybenzaldehyde (H_3L) semi-carbazone is produced a compound having the composition $[Zn_3(HL)(Piv)_4(CH_3OH)] \cdot CH_3OH$ with a yield of 70%. According to X-ray diffraction analysis, the compound has the following structural formula:



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

Claims: 2

Fig.: 4