

Synthesis, structure and photoluminescence of Zn(II) 2-methyl-6,7-difluoro-8-oxyquiolate

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Abstract

Synthesis of 2-methyl-6,7-difluoroquinoline Zn(II) complex of structure [Zn(L-H)₂]·2HC(O)NMe₂ was realized. Structure of the complex has been proved by NMR ¹H, ¹⁹F NMR, mass-spectra as well as X-ray data. Atom of Zn was shown to be pentacoordinated, type of coordination of the central atom is the distorted trigonal bipyramid. Complex demonstrates green fluorescence in acetonitrile solution.