

## SYNTHESIS AND CRYSTAL STRUCTURE OF A NEW Fe(II) $\alpha$ -DIOXIMATE WITH TRIAZINE

O. Ciobanica<sup>a</sup>, P. Bourosh<sup>b\*</sup>, O. Bologa<sup>a</sup>, I. Bulhac<sup>a</sup>, V. Lozan<sup>a</sup>, V. Shofransky<sup>a</sup>

<sup>a</sup>Institute of Chemistry, Academy of Sciences of Moldova, 3, Academiei str.,

MD-2028, Chisinau, R. Moldova; E-mail : ionbulhac@yahoo.com, Phone : +(373 22) 73 97 90

<sup>b</sup>Institute of Applied Physics, Academy of Sciences of Moldova, 5, Academiei str., MD-2028, Chisinau,

R. Moldova; E-mail : bourosh.xray@phys.asm.md, Phone : +(373 22) 73 81 54

**Abstract.** The interaction of [Fe(DfgH)<sub>2</sub>Py<sub>2</sub>] (where DfgH=monodeprotonated diphenylglyoxime, Py-pyridone) and 1,3,5-triazine (Trz) in chloroform resulted in a new coordination compound with the composition [Fe(DfgH)<sub>2</sub>(Trz)<sub>2</sub>].2CHCl<sub>3</sub> (**1**). The crystal structure of **1**, determined by single crystal X-ray diffraction, revealed that Fe(II) atom is coordinated by four oximic nitrogen atoms of two DfgH and two nitrogen atoms of two Trz ligands resulting in octahedral surrounding.

**Keywords:** synthesis; Fe(II)dioximate; 1,3,5-triazine, crystal structure.