

s13.m38.p7 **Structural Study of Copper(II) Carboxylates with Some Derivatives of Pyridine.** Marian Koman and Milan Melnik, *Department of Inorganic Chemistry, Faculty of Chemical and Food Technology, STU, Radlinského 9, 812 37 Bratislava, Slovak Republic. E-mail: koman@chtf.stuba.sk*

**Keywords: Copper; Carboxylates; Structure**

The copper(II) carboxylates have been the subject of numerous investigations, especially with nitrogen donor ligands[1]. Copper(II) ions play a vital role in a number of widely differing biological processes, and their interaction with drugs administered for therapeutic reasons is of considerable interest. Some carboxylic acids and their derivatives also play an important role in biological processes[2-4]. Different coordination modes of the carboxylato groups leads to the formation of mononuclear, binuclear and polynuclear structures. Over three hundred new Cu(II) coordination compounds with bioactive ligands were prepared in our laboratory. The crystal and molecular structures of 55 these new copper(II) coordination compounds with the composition of  $CuX_2L$  and  $CuX_2L_2$  (X = fenamates, propionates and salicylates, as well as their derivatives) and L = nicotinamide, N,N-diethylnicotinamide, 2,6-dimethanopyridine, 2-, 3- or 4-pyridincarbonol, were studied and classified. On the basis classification the evident trends of the structural type can be predicted of the perspective new copper(II) compounds with familiar type of ligands. The X as well as some neutral ligands are active as non-steroidal antiphlogistic drugs. Therefore their study in the present of copper(II) is very promising.

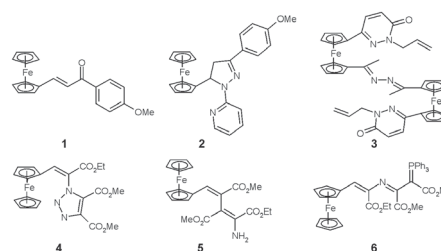
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s13.m38.p8 **Synthesis and Crystal Structure of Ferrocene Derivatives.** V. Kudar<sup>1</sup>, Gy. Túrós<sup>2</sup>, V. Zsoldos-Mády<sup>2</sup>, A. Csámpai<sup>1</sup>, M. Hanusz<sup>3</sup>, P. Sohár<sup>1,2</sup>, K. Simon<sup>3</sup>, <sup>1</sup>Dept. of Gen. and Inorg. Chem., ELTE, Budapest, <sup>2</sup>Research Group for Structural Chemistry and Spectroscopy, Hung. Acad. Sci. - ELTE, Budapest, <sup>3</sup>Chinoin Ltd, a member of Sanofi-Synthelabo Group, Budapest, Hungary. E-mail: zoldrepsi@hotmail.com

**Keywords: Ferrocene; X-ray single crystal analysis; Heterocyclic compounds**

The study of ferrocene compounds has tremendously increased during the last two decades due to their applications in a variety of areas, including catalysis, organic synthesis and the design of new materials. There is rapidly growing interest in the use of transition-metal complexes in medicine and other biological areas as well.

We determined the crystal structure of six (1-6) ferrocene derivatives reported here.



Crystallographic parameters					
Compound	Space group	Unit cell		Volume/Å <sup>3</sup>	Z
		a/Å, b/Å, c/Å	α/°, β/°, γ/°		
1	P 21/c	10.540(2) 7.839(1) 19.200(1)	90 90.82(1) 90	1587.7(4)	4
2	P 21/c	7.420(2) 16.331(2) 17.004(2)	90 90.43(1) 90	2060.5(6)	4
3	P-1	9.446(5) 9.844(2) 17.955(8)	90.12(3) 98.09(5) 89.92(3)	1652(1)	2
4	Pbca	15.666(3) 10.853(3) 23.617(4)	90 90 90	4015.4(7)	8
5	P 21/c	9.49(3) 19.49(5) 19.93(3)	90 102.4(2) 90	3413(15)	4
6	P 21/c	10.833(1) 10.425(2) 18.458(3)	90 91.38 (1) 90	2084.0(4)	4

Structural features including the relative position of the two cyclopentadienyl rings will be discussed. Synthesis details of 3 [2] and 4-6 [1] are described elsewhere.

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