



5th NATIONAL
**INORGANIC
CHEMISTRY
CONGRESS**
ABSTRACT BOOK
APRIL 22-25, 2015

V. ULUSAL
**ANORGANİK
KİMYA
KONGRESİ**
ÖZET KİTABI
22-25 NİSAN 2015

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Tetrakis(μ -4-methylbenzoato- κ^2 O:O') bis[(4-acetylpyridine- κ N) zinc(II)]

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The centrosymmetric binuclear title complex $[\text{Zn}_2(\text{C}_8\text{H}_7\text{O}_2)_4(\text{C}_7\text{H}_7\text{O})_2]$ has been synthesized and characterized by FT-IR and NMR methods. The obtained Zn(II) metal complex has been also characterized by a single crystal X-ray diffraction study. Crystal data for $\text{C}_{23}\text{H}_{21}\text{NO}_5\text{Zn}$: Monoclinic, Space group P21/c (no. 14), $a = 10.4827(3)$ Å, $b = 8.6141(2)$ Å, $c = 24.7582(6)$ Å, $\beta = 101.066(1)^\circ$, $V = 2194.07(10)$ Å³, $Z = 4$, $D_{\text{calc}} = 1.3187$ g/cm³, 22545 reflections measured ($3.96^\circ \leq 2\theta \leq 52.74^\circ$), 4465 unique ($R_{\text{int}} = 0.0427$, $R_{\text{sigma}} = 0.0423$) which were used in all calculations. The final R_1 was 0.0489 ($I \geq 2\sigma(I)$) and wR_2 was 0.1533 (All data). The four nearest O atoms around each Zn(II) ion form a distorted square-planar arrangement, and the distorted square-pyramidal coordination is completed by the pyridine N atom of the 4-acetylpyridine compound.

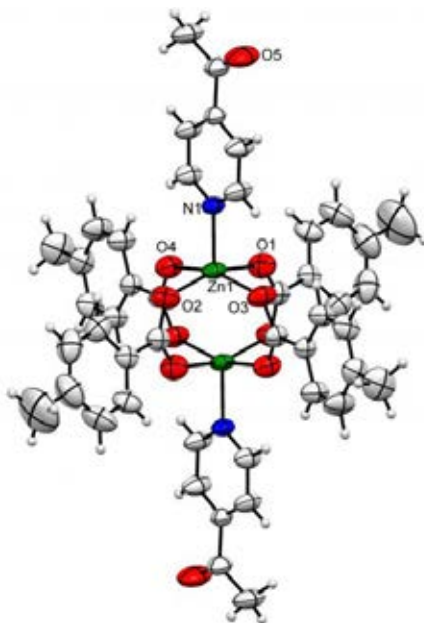


Figure 1. Molecular structure of title compound.

Keywords: Synthesis, Crystal Structure, Zinc Complex, Centrosymmetric