Acta Crystallographica Section C

## **Crystal Structure Communications**

ISSN 0108-2701

## catena-Poly[[tetrakis[ $\mu$ -(3-methoxyphenyl)acetato-O:O']dicopper(II)]- $\mu$ -2-aminopyrimidine- $N^1:N^3$ ]

### **Lynch and Duckhouse**

#### **Electronic paper**

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# catena-Poly[[tetrakis[ $\mu$ -(3-methoxy-phenyl)acetato-O:O']dicopper(II)]- $\mu$ -2-aminopyrimidine- $N^1$ : $N^3$ ]

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Received 29 June 2000 Accepted 14 August 2000

Data validation number: IUC0000222

The structure of the title compound,  $[Cu_2(C_9H_9O_3)_4-(C_4H_5N_3)]$ , comprises a zigzag polymer of alternating tetrakis(carboxylato-O:O')dicopper(II) and 2-aminopyrimidine units linked by axial Cu-N bonds, and the noncentrosymmetric structure has four unique (3-methoxyphenyl)acetate moieties.

#### Comment

In the structure of the title compound, (I), one of the methoxy groups (O9) is disordered with two methyl groups (C36 and C37) of equal occupancy. Hydrogen-bonding associations are recorded from the pyrimidine 2-amino group (N3) to the

carboxylate O3<sup>i</sup> [N···O 2.868 (7) Å and angle at H 154°; symmetry code: (i)  $\frac{3}{2} - x$ ,  $y - \frac{1}{2}$ ,  $\frac{1}{2} + z$ ] and O5 atoms [N···O 2.964 (7) Å and angle at H 157°].

#### **Experimental**

Complex (I) was prepared according to the literature procedure of Smith *et al.* (1996).

#### Crystal data

 $[Cu_2(C_9H_9O_3)_4(C_4H_5N_3)]$ Mo  $K\alpha$  radiation  $M_r = 882.84$ Cell parameters from 8113 Orthorhombic, Pna21 reflections a = 27.981 (6) Å  $\theta = 2.91-27.48^{\circ}$ b = 15.523 (3) Å $\mu = 1.164 \text{ mm}^$ c = 8.9366 (18) ÅT = 150 (2) K $V = 3881.7 (13) \text{ Å}^3$ Plate, green Z = 4 $0.10 \times 0.10 \times 0.01 \text{ mm}$  $D_x = 1.518 \text{ Mg m}^{-3}$ 

#### Data collection

Enraf–Nonius KappaCCD areadetector diffractometer  $\varphi$  and  $\omega$  scans  $\varphi$  and  $\omega$  scans  $\varphi$  and  $\omega$  scans  $\varphi$  and  $\varphi$  and  $\varphi$  scans  $\varphi$  and  $\varphi$  and  $\varphi$  and  $\varphi$  are  $\varphi$  are  $\varphi$  and  $\varphi$  a

#### Refinement

Refinement on  $F^2$   $w = 1/[\sigma^2(F_o^2) + (0.0460P)^2]$  where  $P = (F_o^2 + 2F_c^2)/3$   $wR(F^2) = 0.096$   $(\Delta/\sigma)_{max} = 0.008$   $\Delta\rho_{max} = 0.335 \text{ e Å}^{-3}$  7250 reflections  $\Delta\rho_{min} = -0.380 \text{ e Å}^{-3}$  Absolute structure: Flack (1983), 3447 Friedel pairs Flack parameter = -0.002 (12)

Data collection: *DENZO* (Otwinowski & Minor, 1997) and *COLLECT* (Hooft, 1998); cell refinement: *DENZO* and *COLLECT*; data reduction: *DENZO* and *COLLECT*; program(s) used to solve structure: *SHELXS*97 (Sheldrick, 1997*a*); program(s) used to refine structure: *SHELXL*97 (Sheldrick, 1997*b*); software used to prepare material for publication: *SHELXL*97.

The authors acknowledge financial support from the School of Natural and Environmental Sciences (Coventry), and thank the EPSRC National Crystallography Service (Southampton).

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