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## Structure Reports

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# *trans*-Di- $\mu$ -acetato- $\kappa^4$ O:O'-bis[2-(5-phenylisoxazolin-3-yl)phenyl- $\kappa^2$ C<sup>1</sup>,N]-dipalladium(II)

Jin Zhou, Qibao Wang and Hongjian Sun\*

School of Chemistry and Chemical Engineering, Shandong University, Shanda Nanlu 27, Jinan 250100, People's Republic of China

Correspondence e-mail: hjsun@sdu.edu.cn

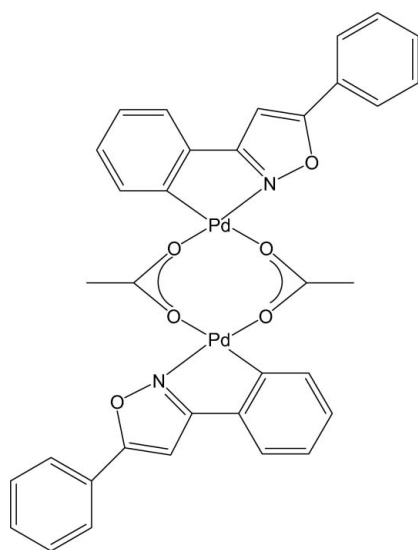
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 Key indicators: single-crystal X-ray study;  $T = 298$  K; mean  $\sigma(\text{C}-\text{C}) = 0.013$  Å;  $R$  factor = 0.049;  $wR$  factor = 0.143; data-to-parameter ratio = 15.3.

The title compound,  $[\text{Pd}_2(\text{C}_{15}\text{H}_{10}\text{NO})_2(\text{C}_2\text{H}_3\text{O}_2)_2]$ , crystallized from a dichloromethane/*n*-hexane solution with two crystallographically independent dimeric molecules in the asymmetric unit. Each molecule may be described as a dimer with an *anti* configuration and the cyclometallated fragments in the characteristic open-book disposition, linked by two bridging acetate ligands.

## Related literature

For a related palladacycle bridged by acetate ligands, see: Schultz *et al.* (2004). For related literature, see: Dupont *et al.* (2005).



## Experimental

## Crystal data

 $[\text{Pd}_2(\text{C}_{15}\text{H}_{10}\text{NO})_2(\text{C}_2\text{H}_3\text{O}_2)_2]$ 
 $M_r = 771.37$ 

 Monoclinic,  $P2_1/c$ 
 $a = 14.8160$  (6) Å

 $b = 24.2339$  (10) Å

 $c = 19.6397$  (8) Å

 $\beta = 103.233$  (1)°

 $V = 6864.4$  (5) Å<sup>3</sup>
 $Z = 8$ 

 Mo  $K\alpha$  radiation

 $\mu = 1.09$  mm<sup>-1</sup>
 $T = 298$  (2) K

 $0.28 \times 0.20 \times 0.15$  mm

## Data collection

Bruker SMART APEXII

diffractometer

Absorption correction: multi-scan

(SADABS; Sheldrick, 1996)

 $T_{\min} = 0.750$ ,  $T_{\max} = 0.854$ 

80599 measured reflections

12098 independent reflections

 8103 reflections with  $I > 2\sigma(I)$ 
 $R_{\text{int}} = 0.038$ 

## Refinement

 $R[F^2 > 2\sigma(F^2)] = 0.049$ 
 $wR(F^2) = 0.143$ 
 $S = 1.09$ 

12098 reflections

793 parameters

H-atom parameters constrained

 $\Delta\rho_{\text{max}} = 0.81$  e Å<sup>-3</sup>
 $\Delta\rho_{\text{min}} = -0.58$  e Å<sup>-3</sup>

Data collection: *APEX2* (Bruker, 2005); cell refinement: *SAINT* (Bruker, 1997); data reduction: *SAINT*; program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL97* (Sheldrick, 2008) and *PLATON* (Spek, 2003); molecular graphics: *SHELXTL* (Sheldrick, 2008); software used to prepare material for publication: *SHELXTL*.

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: CF2190).

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