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Structure Reports

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Bis(2,6-dimethylpyrazine- κ N⁴)diiodidozinc(II)Sun Hwa Lee,^a Sea-Hyun Kim,^b Pan-Gi Kim,^c Cheal Kim^{a*} and Youngmee Kim^{d*}

^aDepartment of Fine Chemistry and Eco-Products and Materials Education Center, Seoul National University of Technology, Seoul 139-743, Republic of Korea, ^bTree Breeding Division, Korea Forest Research Institute, Suwon 441-350, Republic of Korea, ^cDepartment of Forest Resources and Environment, Kyungpook National University, Sangju 742-711, Republic of Korea, and ^dDivision of Nano Sciences, Ewha Womans University, Seoul 120-750, Republic of Korea
Correspondence e-mail: chealkim@sunt.ac.kr, ymeekim@ewha.ac.kr

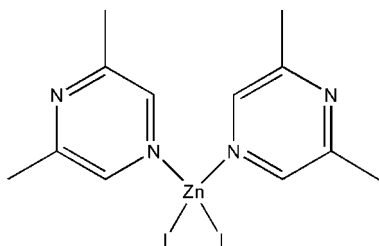
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Key indicators: single-crystal X-ray study; $T = 170$ K; mean $\sigma(\text{C}-\text{C}) = 0.007$ Å; R factor = 0.032; wR factor = 0.069; data-to-parameter ratio = 19.0.

In the title compound, $[\text{ZnI}_2(\text{C}_6\text{H}_8\text{N}_2)_2]$, the Zn^{II} ion is coordinated by two iodide anions and two N atoms from 2,6-dimethylpyrazine in a distorted tetrahedral geometry.

Related literature

For background information, see: Batten & Robson (1998); Chi *et al.* (2006); Evans & Lin (2002); Hong *et al.* (2004); Janiak (2003); Janaik & Scharmann (2003); Kasai *et al.* (2000); Kitagawa *et al.* (2004); Luan *et al.* (2005, 2006); Moler *et al.* (2001); Moulton & Zaworotko (2001); Ryu *et al.* (2005); Wang *et al.* (2006); Blake *et al.* (1999); Saalfrank *et al.* (2001).



Experimental

Crystal data

$[\text{ZnI}_2(\text{C}_6\text{H}_8\text{N}_2)_2]$
 $M_r = 535.48$
Monoclinic, $P2_1/c$
 $a = 9.1825$ (7) Å
 $b = 13.8144$ (10) Å

$c = 13.6242$ (10) Å
 $\beta = 98.381$ (1)°
 $V = 1709.8$ (2) Å³
 $Z = 4$
Mo $K\alpha$ radiation

$\mu = 5.04$ mm⁻¹
 $T = 170$ (2) K

0.10 × 0.05 × 0.05 mm

Data collection

Bruker SMART CCD diffractometer
Absorption correction: none
9413 measured reflections

3344 independent reflections
2518 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.109$

Refinement

$R[F^2 > 2\sigma(F^2)] = 0.032$
 $wR(F^2) = 0.069$
 $S = 0.81$
3344 reflections

176 parameters
H-atom parameters constrained
 $\Delta\rho_{\text{max}} = 0.81$ e Å⁻³
 $\Delta\rho_{\text{min}} = -1.27$ e Å⁻³

Data collection: *SMART* (Bruker, 1997); 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); 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: DN2320).

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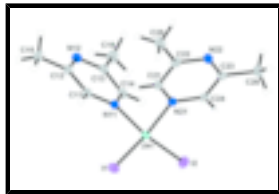
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