Acta Crystallographica Section E

## Structure Reports

Online
ISSN 1600-5368

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## Key indicators

Single-crystal X-ray study
$T=298 \mathrm{~K}$
Mean $\sigma(\mathrm{C}-\mathrm{C})=0.006 \AA$
$R$ factor $=0.031$
$w R$ factor $=0.083$
Data-to-parameter ratio $=14.1$
For details of how these key indicators were automatically derived from the article, see http://journals.iucr.org/e.

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## (3-Methoxy-2-oxidobenzaldehyde benzoylhydrazonato)dimethyltin(IV)

solution was filtered and evaporated to dryness. The title solid was recrystallized from dichloromethane-hexane (1:1 v/v; m. p. 486$487 \mathrm{~K})$. Analysis $\mathrm{C}_{17} \mathrm{H}_{18} \mathrm{~N}_{2} \mathrm{O}_{3} \mathrm{Sn}$ : C 48.95, H 4.35, N $6.71 \%$; found: C 48.65, N 4.12, N 6.54\%.

## Crystal data

$\left[\mathrm{Sn}\left(\mathrm{CH}_{3}\right)_{2}\left(\mathrm{C}_{15} \mathrm{H}_{12} \mathrm{~N}_{2} \mathrm{O}_{3}\right)\right]$
$M_{r}=417.02$
Monoclinic, $C 2 / c$
$a=26.477$ (4) А
$b=9.5444$ (16) $\AA$
$c=13.594(2) \AA$
$\beta=103.475(2)^{\circ}$
$V=3340.8(9) \AA^{3}$

## Data collection

Siemens SMART CCD area-
detector diffractometer
$\varphi$ and $\omega$ scans
Absorption correction: multi-scan
(SADABS; Sheldrick, 1996)
$T_{\text {min }}=0.518, T_{\text {max }}=0.654$

## Refinement

Refinement on $F^{2}$
$R\left[F^{2}>2 \sigma\left(F^{2}\right)\right]=0.031$
$w R\left(F^{2}\right)=0.083$
$S=1.02$
2947 reflections
209 parameters
H -atom parameters constrained

## $Z=8$

$D_{x}=1.658 \mathrm{Mg} \mathrm{m}^{-3}$
Mo $K \alpha$ radiation
$\mu=1.55 \mathrm{~mm}^{-1}$
$T=298$ (2) K
Block, orange
$0.49 \times 0.43 \times 0.30 \mathrm{~mm}$

8516 measured reflections 2947 independent reflections 2381 reflections with $I>2 \sigma(I)$
$R_{\text {int }}=0.040$
$\theta_{\text {max }}=25.0^{\circ}$

$$
\begin{aligned}
& w=1 /[ \sigma^{2}\left(F_{\mathrm{o}}^{2}\right)+(0.042 P)^{2} \\
&+2.9384 P] \\
& \text { where } P=\left(F_{\mathrm{o}}^{2}+2 F_{\mathrm{c}}^{2}\right) / 3 \\
&(\Delta / \sigma)_{\max }=0.002 \\
& \Delta \rho_{\max }=0.48 \mathrm{e} \AA^{-3} \\
& \Delta \rho_{\min }=-0.50 \mathrm{e}^{-3}
\end{aligned}
$$



Figure 1
The structure of the title complex and the atom-numbering, with displacement ellipsoids shown at the $30 \%$ probability level. H atoms have been omitted.


Figure 2
Partial crystal packing of the title complex, with the intermolecular $\mathrm{Sn} \cdots \mathrm{O}$ interactions (dashed lines). H atoms have been omitted.

We acknowledge the financial support of the Shandong Province Science Foundation and the State Key Laboratory of Crystalline Materials, Shandong University, People's Republic of China.

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