Acta Crystallographica Section E

## Structure Reports

Online
ISSN 1600-5368

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## Key indicators

Single-crystal X-ray study
$T=294 \mathrm{~K}$
Mean $\sigma(\mathrm{C}-\mathrm{C})=0.003 \AA$
$R$ factor $=0.044$
$w R$ factor $=0.126$
Data-to-parameter ratio $=15.3$
For details of how these key indicators were automatically derived from the article, see http://journals.iucr.org/e.

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## 5-Phenyl-3-[3-(5-phenyl-1,2,4-triazin-3-ylsulfanyl)-propylsulfanyl]-1,2,4-triazine

## Data collection

Bruker APEX-II CCD areadetector diffractometer $\varphi$ and $\omega$ scans
Absorption correction: multi-scan (SADABS; Sheldrick, 1996)
$T_{\text {min }}=0.939, T_{\text {max }}=0.972$

## Refinement

Refinement on $F^{2}$
$R\left[F^{2}>2 \sigma\left(F^{2}\right)\right]=0.044$
$w R\left(F^{2}\right)=0.126$
$S=0.95$
2014 reflections
132 parameters

H -atom parameters constrained
5456 measured reflections 2014 independent reflections 1231 reflections with $I>2 \sigma(I)$
$R_{\text {int }}=0.044$
$\theta_{\text {max }}=26.3^{\circ}$
$w=1 /\left[\sigma^{2}\left(F_{\mathrm{o}}^{2}\right)+(0.059 P)^{2}\right]$
where $P=\left(F_{\mathrm{o}}{ }^{2}+2 F_{\mathrm{c}}{ }^{2}\right) / 3$
$(\Delta / \sigma)_{\max }<0.001$ 。
$\Delta \rho_{\text {max }}=0.30 \mathrm{e}^{-3}$
$\Delta \rho_{\min }=-0.18 \mathrm{e} \mathrm{A}^{-3}$

Table 1
Selected geometric parameters ( $\left({ }^{\circ},{ }^{\circ}\right)$.

| S1-C9 | $1.745(2)$ | $\mathrm{N} 3-\mathrm{C} 7$ | $1.321(3)$ |
| :--- | :---: | :--- | :--- |
| $\mathrm{S} 1-\mathrm{C} 10$ | $1.805(2)$ | $\mathrm{N} 3-\mathrm{C} 9$ | $1.347(3)$ |
| $\mathrm{N} 1-\mathrm{C} 9$ | $1.319(3)$ | $\mathrm{C} 7-\mathrm{C} 8$ | $1.399(3)$ |
| $\mathrm{N} 1-\mathrm{N} 2$ | $1.350(3)$ | $\mathrm{C} 11-\mathrm{C} 10^{\mathrm{i}}$ | $1.517(3)$ |
| $\mathrm{N} 2-\mathrm{C} 8$ | $1.313(3)$ |  |  |
| $\mathrm{C} 9-\mathrm{S} 1-\mathrm{C} 10$ | $103.16(12)$ | $\mathrm{N} 2-\mathrm{C} 8-\mathrm{C} 7$ | $122.7(2)$ |
| $\mathrm{C} 9-\mathrm{N} 1-\mathrm{N} 2$ | $116.81(18)$ | $\mathrm{N} 1-\mathrm{C} 9-\mathrm{N} 3$ | $127.3(2)$ |
| $\mathrm{C} 7-\mathrm{N} 3-\mathrm{C} 9$ | $115.3(2)$ | $\mathrm{C} 10^{\mathrm{i}}-\mathrm{C} 11-\mathrm{C} 10$ | $111.0(3)$ |
| N3-C7-C8 | $118.9(2)$ |  |  |
| Symmetry code: $(\mathrm{i})-x+1, y,-z+\frac{3}{2}$. |  |  |  |

All H atoms were placed in calculated positions, with $\mathrm{C}-\mathrm{H}=0.93$ or $0.97 \AA$, and included in the final cycles of refinement using a riding model, with $U_{\text {iso }}(\mathrm{H})$ set at $1.2 U_{\text {eq }}(\mathrm{C})$ for all H atoms.

Data collection: SMART (Bruker, 1998); cell refinement: SAINT (Bruker, 1999); data reduction: SAINT; program(s) used to solve


Figure 1
The molecular structure, with displacement parameters at the $35 \%$ probability level. The suffix A corresponds to symmetry code i in Table 1.
structure: SHELXS97 (Sheldrick, 1997); program(s) used to refine structure: SHELXL97 (Sheldrick, 1997); molecular graphics: SHELXTL (Bruker, 1999); software used to prepare material for publication: SHELXTL.

This project was supported by the National Natural Science Foundation of China (20572057).

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