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## Structure Reports

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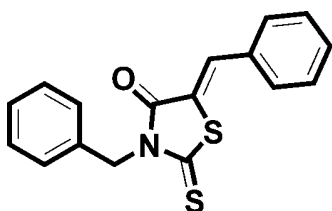
## 3-Benzyl-5-benzylidene-2-sulfanylidene-1,3-thiazolidin-4-one

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Key indicators: single-crystal X-ray study;  $T = 296$  K; mean  $\sigma(\text{C}-\text{C}) = 0.003$  Å;  $R$  factor = 0.036;  $wR$  factor = 0.101; data-to-parameter ratio = 18.9.In the title molecule,  $\text{C}_{17}\text{H}_{13}\text{NOS}_2$ , the essentially planar thiazole ring (r.m.s deviation 0.005 Å) forms dihedral angles of 16.85 (8)° and 75.02 (8)° with the phenyl rings. The dihedral angle between the two phenyl rings is 61.95 (9)°.

## Related literature

For the synthesis and related structures, see: Shahwar *et al.* (2009, 2011).

## Experimental

## Crystal data

$\text{C}_{17}\text{H}_{13}\text{NOS}_2$	$\gamma = 76.1770$ (9)°
$M_r = 311.40$	$V = 740.99$ (4) Å <sup>3</sup>
Triclinic, $P\bar{1}$	$Z = 2$
$a = 6.3152$ (2) Å	Mo $K\alpha$ radiation
$b = 10.8168$ (3) Å	$\mu = 0.36$ mm <sup>-1</sup>
$c = 11.4545$ (3) Å	$T = 296$ K
$\alpha = 84.1150$ (9)°	$0.35 \times 0.31 \times 0.15$ mm
$\beta = 77.6000$ (9)°	

## Data collection

Bruker Kappa APEX II CCD diffractometer	13205 measured reflections
Absorption correction: multi-scan (SADABS; Bruker, 2007)	3583 independent reflections
$T_{\min} = 0.886$ , $T_{\max} = 0.949$	2930 reflections with $I > 2\sigma(I)$
	$R_{\text{int}} = 0.028$

## Refinement

$R[F^2 > 2\sigma(F^2)] = 0.036$	190 parameters
$wR(F^2) = 0.101$	H-atom parameters constrained
$S = 1.03$	$\Delta\rho_{\max} = 0.28$ e Å <sup>-3</sup>
3583 reflections	$\Delta\rho_{\min} = -0.26$ e Å <sup>-3</sup>

Data collection: *APEX2* (Bruker, 2007); cell refinement: *SAINT* (Bruker, 2007); data reduction: *SAINT*; program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL97* (Sheldrick, 2008); molecular graphics: *PLATON* (Spek, 2009); software used to prepare material for publication: *WinGX* (Farrugia, 1999) and *PLATON*.

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: LH5281).

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