

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) I

No syntax errors found. CIF dictionary Interpreting this report

Datablock: I

Bond precision:	C-C = 0.0043 A	Wavelength=1.54184	
Cell:	a=15.693(1)	b=11.628(2)	c=19.789(3)
	alpha=90	beta=113.624(7)	gamma=90
Temperature:	295 K		
	Calculated	Reported	
Volume	3308.4(8)	3308.4(8)	
Space group	C 2/c	C 2/c	
Hall group	-C 2yc	-C 2yc	
Moiety formula	C17 H15 N3 O4 S	C17 H15 N3 O4 S	
Sum formula	C17 H15 N3 O4 S	C17 H15 N3 O4 S	
Mr	357.39	357.39	
Dx, g cm-3	1.435	1.435	
Z	8	8	
Mu (mm-1)	1.993	1.993	
F000	1488.0	1488.0	
F000'	1495.20		
h, k, lmax	18, 13, 23	18, 13, 23	
Nref	3004	3004	
Tmin, Tmax	0.733, 0.742	0.572, 0.737	
Tmin'	0.388		

Correction method= PSI-SCAN

Data completeness= 1.000 Theta(max)= 67.840

R(reflections)= 0.0560(2633) wR2(reflections)= 0.1986(3004)

S = 1.226 Npar= 227

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

Alert level B

PLAT934_ALERT_3_B Number of (Iobs-Icalc)/SigmaW .gt. 10 Outliers .	9
PLAT939_ALERT_3_B Large Value of Not (SHELXL) Weight Optimized S .	282.50

🟡 Alert level C

PLAT340_ALERT_3_C	Low Bond Precision on C-C Bonds	0.0043	Ang
PLAT918_ALERT_3_C	Reflection(s) # with I(obs) much smaller I(calc)	7	
PLAT975_ALERT_2_C	Positive Residual Density at 1.06A from N17	0.49	eA-3

🟢 Alert level G

PLAT005_ALERT_5_G	No _iucr_refine_instructions_details in CIF ...	?	
PLAT007_ALERT_5_G	Note: Number of Unrefined D-H Atoms	2	
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large.	0.13	
PLAT909_ALERT_3_G	Percentage of Observed Data at Theta(Max) still	80	Perc.

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- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
2 **ALERT level B** = A potentially serious problem, consider carefully
3 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
4 **ALERT level G** = General information/check it is not something unexpected

- 0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
2 ALERT type 2 Indicator that the structure model may be wrong or deficient
5 ALERT type 3 Indicator that the structure quality may be low
0 ALERT type 4 Improvement, methodology, query or suggestion
2 ALERT type 5 Informative message, check
-

checkCIF publication errors

🔴 Alert level A

PUBL006_ALERT_1_A _publ_requested_journal is missing
e.g. 'Acta Crystallographica Section C'
PUBL012_ALERT_1_A _publ_section_abstract is missing.
Abstract of paper in English.
PUBL024_ALERT_1_A The number of authors is greater than 5.
Please specify the role of each of the co-authors
for your paper.

🟢 Alert level G

PUBL013_ALERT_1_G The _publ_section_comment (discussion of study) is
missing. This is required for a full paper submission (but is
optional for an electronic paper).
PUBL017_ALERT_1_G The _publ_section_references section is missing or
empty.

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- 3 **ALERT level A** = Data missing that is essential or data in wrong format
2 **ALERT level G** = General alerts. Data that may be required is missing
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Publication of your CIF

You should attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the nature of your study may justify the reported deviations from journal submission requirements and the more serious of these should be commented upon in the discussion or experimental section of a paper or in the "special_details" fields of the CIF. *checkCIF* was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

If level A alerts remain, which you believe to be justified deviations, and you intend to submit this CIF for publication in Acta Crystallographica Section C or Section E, you should additionally insert an explanation in your CIF using the Validation Reply Form (VRF) below. Your explanation will be considered as part of the review process.

If you intend to submit to another section of Acta Crystallographica or Journal of Applied Crystallography or Journal of Synchrotron Radiation, you should make sure that at least a basic structural check is run on the final version of your CIF prior to submission.

```
# start Validation Reply Form
_vrf_PUBL006_GLOBAL
;
PROBLEM: _publ_requested_journal is missing
RESPONSE: ...
;
_vrf_PUBL012_GLOBAL
;
PROBLEM: _publ_section_abstract is missing.
RESPONSE: ...
;
_vrf_PUBL024_GLOBAL
;
PROBLEM: The number of authors is greater than 5.
RESPONSE: ...
;
# end Validation Reply Form
```

If you wish to submit your CIF for publication in Acta Crystallographica Section C or E, you should upload your CIF via the web. If your CIF is to form part of a submission to another IUCr journal, you will be asked, either during electronic submission or by the Co-editor handling your paper, to upload your CIF via our web site.

