

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) burm002

THIS REPORT IS FOR GUIDANCE ONLY. IF USED AS PART OF A REVIEW PROCEDURE FOR PUBLICATION, IT SHOULD NOT REPLACE THE EXPERTISE OF AN EXPERIENCED CRYSTALLOGRAPHIC REFEREE.

No syntax errors found. CIF dictionary Interpreting this report

Datablock: burm002

Bond precision:	C-C = 0.0016 Å	Wavelength=0.71073
Cell:	a=11.4315 (3) alpha=90	b=6.6765 (2) beta=107.8509 (5) c=11.5969 (3) gamma=90
Temperature:	100 K	
	Calculated	Reported
Volume	842.49 (4)	842.49 (4)
Space group	P 21/m	P 21/m
Hall group	-P 2yb	-P 2yb
Moiety formula	C18 H22 N4 O3 S	C18 H22 N4 O3 S
Sum formula	C18 H22 N4 O3 S	C18 H22 N4 O3 S
Mr	374.46	374.45
Dx, g cm ⁻³	1.476	1.476
Z	2	2
Mu (mm ⁻¹)	0.220	0.220
F000	396.0	396.0
F000'	396.40	
h, k, lmax	15, 8, 15	15, 8, 15
Nref	2269	2268
Tmin, Tmax	0.937, 0.952	0.870, 0.958
Tmin'	0.927	

Correction method= # Reported T Limits: Tmin=0.870 Tmax=0.958
AbsCorr = NUMERICAL

Data completeness= 1.000 Theta(max)= 28.304

R(reflections)= 0.0284 (2195)	wR2(reflections)= 0.0800 (2268)
S = 1.045	Npar= 198

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 C

PLAT369_ALERT_2_C Long C(sp2)-C(sp2) Bond C5 - C6 . 1.53 Ang.



Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	21	Note
PLAT176_ALERT_4_G	The CIF-Embedded .res File Contains SADI Records	2	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0050	Report
PLAT191_ALERT_3_G	A Non-default SADI Restraint Value has been used	0.0050	Report
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety	C20	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety	C40	Check
PLAT802_ALERT_4_G	CIF Input Record(s) with more than 80 Characters	20	Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	42	Note
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .	Please	Do !
PLAT913_ALERT_3_G	Missing # of Very Strong Reflections in FCF	1	Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	10	Info

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
1 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
11 **ALERT level G** = General information/check it is not something unexpected
- 1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
3 ALERT type 2 Indicator that the structure model may be wrong or deficient
4 ALERT type 3 Indicator that the structure quality may be low
4 ALERT type 4 Improvement, methodology, query or suggestion
0 ALERT type 5 Informative message, check
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It is advisable to 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 purpose of your study may justify the reported deviations and the more serious of these should normally 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.

Publication of your CIF in IUCr journals

A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E* or *IUCrData*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

Publication of your CIF in other journals

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

