

checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

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: mx200

Bond precision:	C-C = 0.0059 A	Wavelength=0.71073
Cell:	a=12.267(3)	b=13.680(3) c=17.162(3)
	alpha=67.26(3)	beta=85.66(3) gamma=89.71(3)
Temperature:	173 K	
	Calculated	Reported
Volume	2647.6(12)	2647.5(9)
Space group	P 1	P1
Hall group	P 1	?
Moiety formula	C24 H24 N8 O, C2 H6 O S	?
Sum formula	C26 H30 N8 O2 S	C26 H30 N8 O2 S
Mr	518.64	518.64
Dx,g cm-3	1.301	1.301
Z	4	4
Mu (mm-1)	0.162	0.162
F000	1096.0	1096.0
F000'	1096.85	
h,k,lmax	15,17,22	15,17,22
Nref	24254[12127]	23971
Tmin,Tmax	0.973,0.986	0.961,0.986
Tmin'	0.960	

Correction method= # Reported T Limits: Tmin=0.961 Tmax=0.986
AbsCorr = NUMERICAL

Data completeness= 1.98/0.99 Theta(max)= 27.470

R(reflections)= 0.0688(21101) wR2(reflections)= 0.1851(23971)

S = 1.063 Npar= 1438

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

PLAT234_ALERT_4_C	Large Hirshfeld Difference N2	--C21'	.	0.16 Ang.	
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including		S4	0.106 Check	
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including		S2'	0.103 Check	
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including		S4'	0.167 Check	
PLAT340_ALERT_3_C	Low Bond Precision on C-C Bonds			0.00592 Ang.	
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H2A	..H24A	.	1.84 Ang.
			x,y,z =	1_555	Check
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H12A	..H22A	.	1.87 Ang.
			x,y,z =	1_555	Check
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H2BA	..H24D	.	1.88 Ang.
			x,y,z =	1_555	Check
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H4BA	..H21G	.	1.85 Ang.
			x,y,z =	1_555	Check
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H12B	..H22D	.	1.87 Ang.
			x,y,z =	1_555	Check
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H14B	..H23D	.	1.82 Ang.
			x,y,z =	1_555	Check
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H2CA	..H24G	.	1.84 Ang.
			x,y,z =	1_555	Check
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H4CA	..H21J	.	1.85 Ang.
			x,y,z =	1_555	Check
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H12C	..H22G	.	1.86 Ang.
			x,y,z =	1_555	Check
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H14C	..H23G	.	1.86 Ang.
			x,y,z =	1_555	Check
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H2DA	..H24J	.	1.87 Ang.
			x,y,z =	1_555	Check
PLAT412_ALERT_2_C	Short Intra XH3 .. XHn	H4DA	..H21M	.	1.88 Ang.
			x,y,z =	1_555	Check
PLAT413_ALERT_2_C	Short Inter XH3 .. XHn	H19B	..H22H	.	2.12 Ang.
			1+x,y,z =	1_655	Check
PLAT413_ALERT_2_C	Short Inter XH3 .. XHn	H23E	..H23K	.	2.01 Ang.
			x,y,-1+z =	1_554	Check
PLAT480_ALERT_4_C	Long H...A H-Bond Reported H1C	..S2	.	2.98 Ang.	
PLAT480_ALERT_4_C	Long H...A H-Bond Reported H1D	..S1	.	2.91 Ang.	
PLAT601_ALERT_2_C	Structure Contains Solvent Accessible VOIDS of		.	31 Ang**3	
PLAT790_ALERT_4_C	Centre of Gravity not Within Unit Cell: Resd. #			1 Note	
	C24 H24 N8 O				



Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite		27	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...		18	Report
PLAT005_ALERT_5_G	No Embedded Refinement Details Found in the CIF		Please	Do !
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms		6	Report
PLAT066_ALERT_1_G	Predicted and Reported Tmin&Tmax Range Identical		?	Check
PLAT112_ALERT_2_G	ADDSYM Detects New (Pseudo) Symm. Elem	2	99	%Fit
PLAT113_ALERT_2_G	ADDSYM Suggests Possible Pseudo/New Space Group		C2	Check
PLAT152_ALERT_1_G	The Supplied and Calc. Volume s.u. Differ by ...		3	Units
PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)		0.03	Degree
PLAT301_ALERT_3_G	Main Residue Disorder	(Resd 1)	3%	Note
PLAT301_ALERT_3_G	Main Residue Disorder	(Resd 2)	3%	Note
PLAT301_ALERT_3_G	Main Residue Disorder	(Resd 3)	3%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 6)		100%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 8)		100%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 9)		100%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 10)		100%	Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in	Resd 6	7.80	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in	Resd 8	5.33	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in	Resd 9	2.20	Check

PLAT304_ALERT_4_G	Non-Integer Number of Atoms in	Resd 10	4.67	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp ²)-Methyl Moiety		C22	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp ²)-Methyl Moiety		C24	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp ²)-Methyl Moiety		C24B	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp ²)-Methyl Moiety		C21C	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp ²)-Methyl Moiety		C24C	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp ²)-Methyl Moiety		C22D	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp ²)-Methyl Moiety		C23D	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp ²)-Methyl Moiety		C24D	Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact N3B ..C27'		2.94	Ang.
	x,-1+y,z =	1_545	Check	
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels		17	Note
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #		98	Check
	C21' -N2 -C21 1.555 1.555 1.555		40.20	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #		202	Check
	C3B -O1B -H3BA 1.555 1.555 1.555		9.30	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #		205	Check
	C13B -O1E -H13C 1.555 1.555 1.555		17.00	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #		232	Check
	O1B -C3B -H3BA 1.555 1.555 1.555		3.80	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #		265	Check
	O1E -C13B -H13C 1.555 1.555 1.555		7.00	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #		314	Check
	C3C -O1C -H3CA 1.555 1.555 1.555		5.30	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #		317	Check
	C13C -O1F -H13D 1.555 1.555 1.555		35.50	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #		346	Check
	O1C -C3C -H3CA 1.555 1.555 1.555		2.30	Deg.
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle in CIF #		379	Check
	O1F -C13C -H13D 1.555 1.555 1.555		23.60	Deg.
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #		2	Note
	C24 H24 N8 O			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #		3	Note
	C24 H24 N8 O			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #		4	Note
	C24 H24 N8 O			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #		6	Note
	C2 H6 O S			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #		8	Note
	C2 H6 O S			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #		9	Note
	C2 H6 O S			
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #		10	Note
	C2 H6 O S			
PLAT860_ALERT_3_G	Number of Least-Squares Restraints		184	Note
PLAT899_ALERT_4_G	SHELXL97 is Deprecated and Succeeded by SHELXL		2018	Note

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

3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 23 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
 38 ALERT type 4 Improvement, methodology, query or suggestion
 2 ALERT type 5 Informative message, check

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.

