

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) ptttdn_0m

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: ptttdn_0m

Bond precision: C-C = 0.0093 A

Wavelength=0.71073

Cell: a=8.9894(3) b=9.0013(3) c=11.4059(4)
 alpha=101.627(2) beta=90.517(2) gamma=110.844(2)
Temperature: 173 K

	Calculated	Reported
Volume	841.53(5)	841.53(5)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C12 H11 Cl4 N3 Pt S2	C12 H11 Cl2 N3 Pt1 S2
Sum formula	C12 H11 Cl4 N3 Pt S2	C12 H11 Cl4 N3 Pt S2
Mr	598.24	598.25
Dx,g cm-3	2.361	2.361
Z	2	2
Mu (mm-1)	9.216	9.216
F000	564.0	564.0
F000'	562.56	
h,k,lmax	12,12,15	12,12,15
Nref	4211	4166
Tmin,Tmax	0.081,0.331	0.355,0.746
Tmin'	0.015	

Correction method= # Reported T Limits: Tmin=0.355 Tmax=0.746
AbsCorr = MULTI-SCAN

Data completeness= 0.989

Theta(max)= 28.383

R(reflections)= 0.0248(4079)

wR2(reflections)= 0.0912(4166)

S = 1.570

Npar= 199

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

PLAT919_ALERT_3_B	Reflection # Likely Affected by the Beamstop ...	3	Check
PLAT934_ALERT_3_B	Number of (Iobs-Icalc)/SigmaW > 10 Outliers	3	Check
PLAT939_ALERT_3_B	Large Value of Not (SHELXL) Weight Optimized S .	486.69	Check
PLAT972_ALERT_2_B	Check Calcd Resid. Dens. 0.96A From Pt	-2.67	eA-3

Alert level C

PLAT213_ALERT_2_C	Atom Cl3	has ADP max/min Ratio	3.1	prolat
PLAT220_ALERT_2_C	Non-Solvent Resd 1 Cl	Ueq(max)/Ueq(min) Range	3.5	Ratio
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds		0.00925	Ang.
PLAT431_ALERT_2_C	Short Inter HL..A Contact Cl4 ..S2 .		3.42	Ang.
		-1-x,1-y,2-z =	2_467	Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.600	9	Report
PLAT918_ALERT_3_C	Reflection(s) with I(obs) much Smaller I(calc) .		3	Check
PLAT971_ALERT_2_C	Check Calcd Resid. Dens. 0.88A From Pt		1.99	eA-3
PLAT971_ALERT_2_C	Check Calcd Resid. Dens. 1.44A From Cl1		1.99	eA-3
PLAT971_ALERT_2_C	Check Calcd Resid. Dens. 0.73A From Pt		1.84	eA-3
PLAT971_ALERT_2_C	Check Calcd Resid. Dens. 1.10A From Cl4		1.55	eA-3
PLAT972_ALERT_2_C	Check Calcd Resid. Dens. 0.86A From Pt		-2.10	eA-3
PLAT972_ALERT_2_C	Check Calcd Resid. Dens. 0.91A From Pt		-2.09	eA-3
PLAT972_ALERT_2_C	Check Calcd Resid. Dens. 0.94A From Pt		-1.77	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H2A		-0.64	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H2B		-0.33	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H12		-0.50	eA-3

Alert level G

FORMU01_ALERT_1_G There is a discrepancy between the atom counts in the
_chemical_formula_sum and _chemical_formula_moiety. This is
usually due to the moiety formula being in the wrong format.
Atom count from _chemical_formula_sum: C12 H11 Cl4 N3 Pt1 S2
Atom count from _chemical_formula_moiety:C12 H11 Cl2 N3 Pt1 S2

PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ	Please	Check
PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)	0.002	Degree
PLAT432_ALERT_2_G	Short Inter X...Y Contact Cl2 ..C1		3.19 Ang.
		-x,1-y,1-z =	2_566 Check
PLAT794_ALERT_5_G	Tentative Bond Valency for Pt (II) .	2.15	Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .	Please	Do !
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L=	0.600	37 Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.		4 Info

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

4 **ALERT type 1** CIF construction/syntax error, inconsistent or missing data
16 **ALERT type 2** Indicator that the structure model may be wrong or deficient
6 **ALERT type 3** Indicator that the structure quality may be low
1 **ALERT type 4** Improvement, methodology, query or suggestion
1 **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.

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