

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) NC9

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: NC9

Bond precision:	C-C = 0.0067 Å	Wavelength=0.62000
Cell:	a=11.488 (2)	b=14.203 (3) c=14.404 (3)
	alpha=62.21 (3)	beta=75.71 (3) gamma=74.35 (3)
Temperature:	100 K	
	Calculated	Reported
Volume	1981.8 (9)	1981.8 (9)
Space group	P 1	P 1
Hall group	P 1	P 1
Moiety formula	C43 H37 F3 N O4 P Pt S2	C43 H37 F3 N O4 P Pt S2
Sum formula	C43 H37 F3 N O4 P Pt S2	C43 H37 F3 N O4 P Pt S2
Mr	978.91	978.91
Dx, g cm ⁻³	1.640	1.640
Z	2	2
Mu (mm ⁻¹)	2.618	2.618
F000	972.0	972.0
F000'	971.10	
h, k, lmax	18, 22, 23	18, 22, 23
Nref	34848 [17424]	31365
Tmin, Tmax	0.939, 0.949	
Tmin'	0.877	

Correction method= Not given

Data completeness= 1.80/0.90 Theta(max)= 29.999

R(reflections)= 0.0277 (29616)

wR2(reflections)=
0.0628 (31365)

S = 1.109

Npar= 1000

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

PLAT220_ALERT_2_C	NonSolvent	Resd 2	C	Ueq(max)/Ueq(min)	Range	3.1	Ratio
PLAT911_ALERT_3_C	Missing FCF	Refl Between	Thmin & STh/L=	0.600		8	Report
PLAT971_ALERT_2_C	Check Calcd	Resid. Dens.	0.61Ang	From Pt_21		1.64	eA-3
PLAT971_ALERT_2_C	Check Calcd	Resid. Dens.	0.68Ang	From Pt_11		1.57	eA-3
PLAT971_ALERT_2_C	Check Calcd	Resid. Dens.	0.51Ang	From Pt_21		1.53	eA-3
PLAT972_ALERT_2_C	Check Calcd	Resid. Dens.	0.63Ang	From Pt_21		-2.42	eA-3
PLAT972_ALERT_2_C	Check Calcd	Resid. Dens.	0.63Ang	From Pt_11		-2.27	eA-3
PLAT972_ALERT_2_C	Check Calcd	Resid. Dens.	0.62Ang	From Pt_21		-2.22	eA-3
PLAT972_ALERT_2_C	Check Calcd	Resid. Dens.	0.63Ang	From Pt_11		-2.18	eA-3
PLAT972_ALERT_2_C	Check Calcd	Resid. Dens.	0.63Ang	From Pt_11		-1.90	eA-3
PLAT972_ALERT_2_C	Check Calcd	Resid. Dens.	0.58Ang	From Pt_21		-1.57	eA-3
PLAT977_ALERT_2_C	Check Negative	Difference Density	on H5_13	.		-0.36	eA-3



Alert level G

ABSMU01_ALERT_1_G	Calculation of _exptl_absorpt_correction_mu						
	not performed for this radiation type.						
PLAT033_ALERT_4_G	Flack x Value Deviates > 3.0 * sigma from Zero					0.299	Note
PLAT092_ALERT_4_G	Check: Wavelength Given is not Cu,Ga,Mo,Ag,In Ka					0.62000	Ang.
PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)					0.03	Degree
PLAT343_ALERT_2_G	Unusual sp?	Angle Range in Main Residue for				C1_12	Check
PLAT343_ALERT_2_G	Unusual sp?	Angle Range in Main Residue for				C2_12	Check
PLAT343_ALERT_2_G	Unusual sp?	Angle Range in Main Residue for				C1_22	Check
PLAT343_ALERT_2_G	Unusual sp?	Angle Range in Main Residue for				C2_22	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety					C7_13	Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels					184	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L=	0.600				839	Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File					19	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity					4.2	Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.					0	Info

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
12 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
14 **ALERT level G** = General information/check it is not something unexpected
- 2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
17 ALERT type 2 Indicator that the structure model may be wrong or deficient
2 ALERT type 3 Indicator that the structure quality may be low
5 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.

