

```
R(reflections)= 0.0458( 8178)      wR2(reflections)=
S = 0.795                        0.1185( 15990)
Npar= 368
```

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

GOODF01_ALERT_2_C The least squares goodness of fit parameter lies
outside the range 0.80 <> 2.00
Goodness of fit given = 0.795

STRVA01_ALERT_4_C Flack test results are meaningless.
From the CIF: _refine_ls_abs_structure_Flack -0.100
From the CIF: _refine_ls_abs_structure_Flack_su 0.600

PLAT220_ALERT_2_C NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range 4.2 Ratio
PLAT220_ALERT_2_C NonSolvent Resd 1 O Ueq(max)/Ueq(min) Range 4.6 Ratio
PLAT222_ALERT_3_C NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range 4.3 Ratio
PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of C21 Check
PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of C2 Check
PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of C4 Check
PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of C19 Check
PLAT331_ALERT_2_C Small Aver Phenyl C-C Dist C19 --C24 . 1.36 Ang.
PLAT340_ALERT_3_C Low Bond Precision on C-C Bonds 0.00675 Ang.
PLAT480_ALERT_4_C Long H...A H-Bond Reported H18B ..08 . 2.62 Ang.
PLAT906_ALERT_3_C Large K Value in the Analysis of Variance 2.227 Check
PLAT910_ALERT_3_C Missing # of FCF Reflection(s) Below Theta(Min). 9 Note

● Alert level G

PLAT007_ALERT_5_G Number of Unrefined Donor-H Atoms 1 Report
PLAT032_ALERT_4_G Std. Uncertainty on Flack Parameter Value High . 0.600 Report
PLAT187_ALERT_4_G The CIF-Embedded .res File Contains RIGU Records 1 Report
PLAT300_ALERT_4_G Atom Site Occupancy of O1A Constrained at 0.5 Check
PLAT300_ALERT_4_G Atom Site Occupancy of O1B Constrained at 0.5 Check
PLAT301_ALERT_3_G Main Residue Disorder(Resd 1) 3% Note
PLAT398_ALERT_2_G Deviating C-O-C Angle From 120 for O10 108.7 Degree
PLAT791_ALERT_4_G Model has Chirality at C6 (Sohnke SpGr) R Verify
PLAT791_ALERT_4_G Model has Chirality at C7 (Sohnke SpGr) S Verify
PLAT791_ALERT_4_G Model has Chirality at C10 (Sohnke SpGr) R Verify
PLAT791_ALERT_4_G Model has Chirality at C13 (Sohnke SpGr) S Verify
PLAT791_ALERT_4_G Model has Chirality at C14 (Sohnke SpGr) S Verify
PLAT860_ALERT_3_G Number of Least-Squares Restraints 292 Note
PLAT870_ALERT_4_G ALERTS Related to Twinning Effects Suppressed .. ! 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= 0.600 262 Note
PLAT916_ALERT_2_G Hoof t y and Flack x Parameter Values Differ by . 0.60 Check
PLAT941_ALERT_3_G Average HKL Measurement Multiplicity 4.3 Low

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

1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data

10 ALERT type 2 Indicator that the structure model may be wrong or deficient
7 ALERT type 3 Indicator that the structure quality may be low
13 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.

PLATON version of 13/07/2021; check.def file version of 13/07/2021

