

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) crjplc-2_gaussian_twin1_hklf4

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: crjplc-2_gaussian_twin1_hklf4

Bond precision: C-C = 0.0020 Å Wavelength=1.54184

Cell: a=3.6688 (2) b=12.1030 (5) c=7.0628 (3)
 alpha=90 beta=94.236 (4) gamma=90

Temperature: 120 K

	Calculated	Reported
Volume	312.76 (3)	312.76 (3)
Space group	P 21/m	P 1 21/m 1
Hall group	-P 2yb	-P 2yb
Moiety formula	C4 H4 Cl2 Cr N2	C4 H4 Cl2 Cr N2
Sum formula	C4 H4 Cl2 Cr N2	C4 H4 Cl2 Cr N2
Mr	202.99	202.99
Dx, g cm ⁻³	2.155	2.156
Z	2	2
Mu (mm ⁻¹)	22.054	22.054
F000	200.0	200.0
F000'	201.51	
h, k, lmax	4, 15, 8	4, 14, 8
Nref	660	709
Tmin, Tmax	0.340, 0.564	0.276, 0.695
Tmin'	0.053	

Correction method= # Reported T Limits: Tmin=0.276 Tmax=0.695
AbsCorr = GAUSSIAN

Data completeness= 1.074

Theta (max)= 72.918

R(reflections)= 0.0247 (673)

wR2(reflections)=
0.0719 (709)

S = 1.153

Npar= 47

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

PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor	2.5	Note
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.600	2	Report
PLAT918_ALERT_3_C	Reflection(s) with I(obs) much Smaller I(calc) .	1	Check
PLAT939_ALERT_3_C	Large Value of Not (SHELXL) Weight Optimized S .	11.78	Check



Alert level G

PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	1	Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Cr1 (II) .	2.03	Info
PLAT802_ALERT_4_G	CIF Input Record(s) with more than 80 Characters	1	Info
PLAT870_ALERT_4_G	ALERTS Related to Twinning Effects Suppressed ..	!	Info
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600	5	Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File	3	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity	1.1	Low

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

- 0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
2 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
3 ALERT type 4 Improvement, methodology, query or suggestion
2 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.