

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) er

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: er

Bond precision:	C-C = 0.0069 A	Wavelength=0.71073	
Cell:	a=11.5236(10)	b=20.3299(17)	c=25.596(2)
	alpha=90	beta=90	gamma=90
Temperature:	120 K		
	Calculated	Reported	
Volume	5996.5(9)	5996.5(9)	
Space group	P 21 21 21	P 21 21 21	
Hall group	P 2ac 2ab	P 2ac 2ab	
Moiety formula	C46 H39 Er N10 O4, 4(C H Cl3), H2 O	C46 H39 Er N10 O4, 4(C H Cl3), H2 O	
Sum formula	C50 H45 Cl12 Er N10 O5	C50 H45 Cl12 Er N10 O5	
Mr	1458.62	1458.62	
Dx,g cm-3	1.616	1.616	
Z	4	4	
Mu (mm-1)	1.988	1.988	
F000	2908.0	2908.0	
F000'	2914.83		
h,k,lmax	15,27,34	15,27,34	
Nref	15957[8724]	15895	
Tmin,Tmax	0.438,0.646	0.584,0.746	
Tmin'	0.405		

Correction method= # Reported T Limits: Tmin=0.584 Tmax=0.746
AbsCorr = MULTI-SCAN

Data completeness= 1.82/1.00 Theta(max)= 28.999

R(reflections)= 0.0288(15325) wR2(reflections)= 0.0721(15895)

S = 1.176 Npar= 744

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 1	C	Ueq(max) / Ueq(min) Range	3.5	Ratio
PLAT244_ALERT_4_C	Low	Solvent	Ueq as Compared to Neighbors of	C3S	Check
PLAT244_ALERT_4_C	Low	Solvent	Ueq as Compared to Neighbors of	C1S	Check
PLAT250_ALERT_2_C	Large	U3/U1	Ratio for Average U(i,j) Tensor	3.8	Note
PLAT414_ALERT_2_C	Short	Intra D-H..H-X	H5A ..H17C	1.98	Ang.
			x,y,z =	1_555	Check
PLAT911_ALERT_3_C	Missing	FCF Refl	Between Thmin & STh/L=	0.600	2 Report
PLAT971_ALERT_2_C	Check	Calcd Resid. Dens.	0.43A	From C11X	1.64 eA-3
PLAT972_ALERT_2_C	Check	Calcd Resid. Dens.	0.37A	From C11X	-1.77 eA-3
PLAT975_ALERT_2_C	Check	Calcd Resid. Dens.	0.90A	From N4	0.43 eA-3



Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	17	Note
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms	2	Report
PLAT033_ALERT_4_G	Flack x Value Deviates > 3.0 * sigma from Zero .	0.010	Note
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records	6	Report
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	3	Report
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 2)	75%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 3)	50%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 4)	50%	Note
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	7	Note
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	14	Note
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).	2	Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...	2	Note
PLAT960_ALERT_3_G	Number of Intensities with I < - 2*sig(I) ...	2	Check
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	1	Info

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- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
 - 0 **ALERT level B** = A potentially serious problem, consider carefully
 - 9 **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

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- 0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 - 9 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
 - 9 ALERT type 4 Improvement, methodology, query or suggestion
 - 1 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.

