Checking for embedded fcf data in CIF ... No extractable fcf data in found in CIF

checkCIF/PLATON (basic structural check)

Structure factors have been supplied for datablock(s) AB1701

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 Please wait while processing Interpreting this report

Structure factor report

Datablock: AB1701

Bond precision: C-C = 0.001		-C = 0.0014	1 A	W	/avelength=0.71073	
Cell:	Cell: a=8.4669(4)		8098(4)	c=20.80	81(9)	
	alpha=90	beta=	=91.110(4)	gamma=9	0	
Temperature: 173 K						
Calculated				Reported		
Volume 15		1551.82(12)			1551.81(12)	
Space group P		P 21/n			P 1 21/n 1	
Hall group		-P 2yn			-P 2yn	
Moiety form	ula C21	C21 H22 N2			C21 H22 N2	
Sum formula	C21	C21 H22 N2			C21 H22 N2	
Mr 3		302.41			302.42	
Dx,g cm-3 1.294		94			1.294	
Z	4				4	
Mu (mm-1)	0.07	76			0.076	
F000	648.	. 0			648.3	
F000'	648.	.21				
h,k,lmax	11,1	l1,27			11,11,27	
Nref	3765	5			3097	
Tmin,Tmax	0.96	0.960,0.970			0.971,0.977	
Tmin'	0.96	50				
Correction method= # Reported T Limits: Tmin=0.971 Tmax=0.977 AbsCorr = ANALYTICAL						
Data completeness= 0.823 Theta(max)= 28.070						
R(reflections)= 0.0276(2549)		2549)		wR2(reflections)= 0.0438(3097)		
S = 0.978		Npar= 406				

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 PLAT088_ALERT_3_C Poor D PLAT351_ALERT_3_C Long And 3 other PLAT351 Ale Less	C-H (X0.96,N1.08A)		-	.27 Note 1.11 Ang.
PLAT351_ALERT_3_C Long PLAT351_ALERT_3_C Long PLAT351_ALERT_3_C Long	C-H (X0.96,N1.08A)	C12 - H12A		1.12 Ang. 1.11 Ang. 1.11 Ang.

PLAT410_ALERT_2_C Short Intra HH Contact H9BH23B . 1.96 Ang.							
$x_{y,z} = 1_{555}$ Check							
PLAT410_ALERT_2_C Short Intra HH Contact H11AH20B . 1.99 Ang.							
$x_{y,z} = 1_{555}$ Check							
PLAT411_ALERT_2_C Short Inter HH Contact H5H5 . 2.12 Ang.							
$-x, -y, -z = 3_555$ Check							
●Alert level G							
PLATO68 ALERT 1 G Reported F000 Differs from Calcd (or Missing) Please Check							
PLAT802_ALERT_4_G CIF Input Record(s) with more than 80 Characters 1 Info							
PLAT933_ALERT_2_G Number of HKL-OMIT Records in Embedded .res File 1 Note							
-1 0 1,							
PLAT941 ALERT 3 G Average HKL Measurement Multiplicity							
PLAT979_ALERT_1_G NoSpherA2 Scattering Factors Used Please Note							
0 ALERT level A = Most likely a serious problem - resolve or explain							
0 ALERT level $A =$ Most likely a serious problem - resolve or explain 0 ALERT level $B =$ A potentially serious problem, consider carefully							
8 ALERT level C = Check. Ensure it is not caused by an omission or oversight							
5 ALERT level G = General information/check it is not something unexpected							
S ALERT IEVEL G – General information/encerk it is not something unexpected							
2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data							
4 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							
0 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.

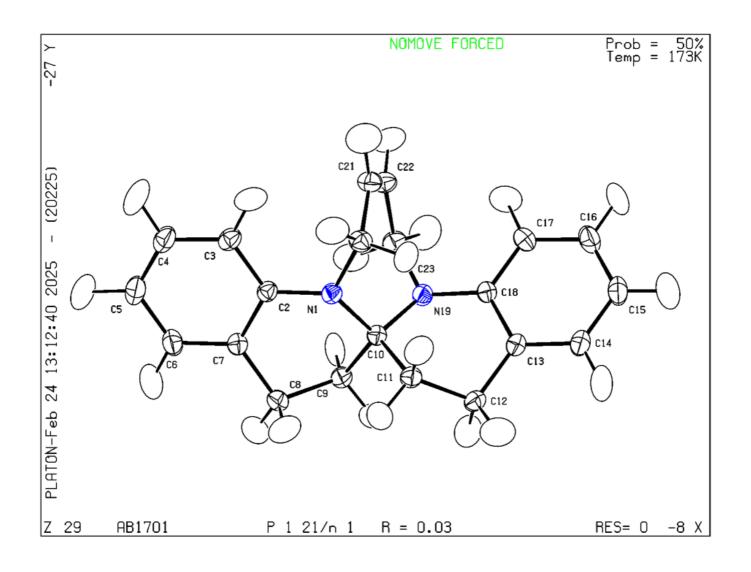
Publication of your CIF in IUCr journals

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 02/02/2025; check.def file version of 02/02/2025 **Datablock AB1701** - ellipsoid plot



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