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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.

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### Alert level C

PLAT250_ALERT_2_C	Large U3/U1 Ratio for <U(i,j)> Tensor(Resd	1)	2.1	Note
PLAT369_ALERT_2_C	Long C(sp2)-C(sp2) Bond C7 - C8	.	1.54	Ang.
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.600	6	Report
	6 -9 10, 4-11 12, 5-11 12, 3-11 13, 2-10 13,	1 -9 14,		
PLAT971_ALERT_2_C	Check Calcd Resid. Dens.	1.17Ang From O10	1.62	eA-3
PLAT975_ALERT_2_C	Check Calcd Resid. Dens.	0.71Ang From O10	0.73	eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens.	0.88Ang From O10	-1.04	eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens.	0.96Ang From O10	-0.57	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H10A	.	-0.48	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H10B	.	-0.79	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H12E	.	-0.72	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H29A	.	-0.34	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H29B	.	-0.44	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H29D	.	-0.36	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H29E	.	-0.31	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H29F	.	-0.52	eA-3

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### Alert level G

PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	2	Info
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms .....	11	Report
	H2A H3A H9C H9D H10A H10B H12E H11B H11C H11E H11F		
PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)	0.003	Degree
PLAT300_ALERT_4_G	Atom Site Occupancy of O12	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of O12'	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C29	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C29'	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H29A	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H29B	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H29C	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H29D	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H29E	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H29F	Constrained at	0.5 Check
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd	2)	100% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd	3)	100% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd	4)	100% Note
PLAT309_ALERT_2_G	Single Bonded Oxygen (C-O > 1.3 Ang) .....	O12'	Check
PLAT413_ALERT_2_G	Short Inter XH3 .. XHn H6C ..H29F	.	2.06 Ang.
	2-x,2-y,2-z =	2_777	Check
PLAT413_ALERT_2_G	Short Inter XH3 .. XHn H18A ..H29E	.	1.75 Ang.
	3-x,2-y,2-z =	2_877	Check
PLAT414_ALERT_2_G	Short Intra D-H..H-X H12E ..H29A	.	2.11 Ang.
	x,y,z =	1_555	Check
PLAT414_ALERT_2_G	Short Intra D-H..H-X H12E ..H29D	.	1.69 Ang.
	x,y,z =	1_555	Check
PLAT414_ALERT_2_G	Short Intra D-H..H-X H12E ..H29E	.	1.91 Ang.
	x,y,z =	1_555	Check
PLAT414_ALERT_2_G	Short Intra D-H..H-X H12E ..H29F	.	0.40 Ang.
	x,y,z =	1_555	Check
PLAT417_ALERT_2_G	Short Inter D-H..H-D H3A ..H11F	.	1.35 Ang.

	x,y,1+z =	1_556 Check
PLAT417_ALERT_2_G Short Inter D-H..H-D	H10B ..H11B .	1.97 Ang.
	2-x,2-y,1-z =	2_776 Check
PLAT804_ALERT_5_G Number of ARU-Code Packing Problem(s) in PLATON		8 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		135 Note
PLAT941_ALERT_3_G Average HKL Measurement Multiplicity .....		3.6 Low
PLAT969_ALERT_5_G The 'Henn et al.' R-Factor-gap value .....		4.05 Note
	Predicted wR2: Based on SigI**2 2.69 or SHELX Weight 10.70	
PLAT978_ALERT_2_G Number C-C Bonds with Positive Residual Density.		9 Info
PLAT992_ALERT_5_G Repd & Actual _reflns_number_gt Values Differ by		2 Check

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 15 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
 32 **ALERT level G** = General information/check it is not something unexpected

2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
 24 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  
 14 ALERT type 4 Improvement, methodology, query or suggestion  
 5 ALERT type 5 Informative message, check

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## Datablock: 2

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Bond precision: C-C = 0.0024 A                      Wavelength=0.71073

Cell:                      a=10.537(3)                      b=12.378(2)                      c=12.849(2)  
                               alpha=61.476(8)                      beta=72.697(10)                      gamma=85.374(14)

Temperature:              293 K

	Calculated	Reported
Volume	1402.0(5)	1402.0(5)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C21 H15 Co N2 O7 S, C7 H7 N2 O, 2(H2 O)	?
Sum formula	C28 H26 Co N4 O10 S	C28 H26 Co N4 O10 S
Mr	669.52	669.52
Dx, g cm <sup>-3</sup>	1.586	1.586
Z	2	2
Mu (mm <sup>-1</sup> )	0.754	0.754
F000	690.0	690.0
F000'	691.27	
h,k,lmax	14,16,17	14,16,17
Nref	6953	6938
Tmin,Tmax	0.834,0.860	0.685,0.746
Tmin'	0.740	

Correction method= # Reported T Limits: Tmin=0.685 Tmax=0.746  
AbsCorr = MULTI\_SCAN

Data completeness= 0.998

Theta(max)= 28.280

R(reflections)= 0.0296( 6419)

wR2(reflections)=  
0.0841( 6938)

S = 1.063

Npar= 397

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

PLAT245_ALERT_2_C	U(iso) H9C	Smaller than U(eq) O9	by	0.042 Ang**2
PLAT245_ALERT_2_C	U(iso) H9D	Smaller than U(eq) O9	by	0.042 Ang**2
PLAT369_ALERT_2_C	Long	C(sp2)-C(sp2) Bond C7	- C7_e	1.54 Ang.
PLAT369_ALERT_2_C	Long	C(sp2)-C(sp2) Bond C28	- C28_f	1.54 Ang.
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.600		2 Report
	5 -3 10, 5 10 14,			
PLAT976_ALERT_2_C	Check Calcd Resid. Dens.	0.65Ang From O9	.	-0.94 eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens.	0.58Ang From O9	.	-0.88 eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens.	0.48Ang From O9	.	-0.87 eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens.	0.46Ang From O9	.	-0.85 eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H9C		.	-0.42 eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H9D		.	-0.52 eA-3



#### Alert level G

PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	2	Info
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms .....	6	Report
	H2A H4A H9C H9D H10C H10D		
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature ..... (K)	293	Check
PLAT200_ALERT_1_G	Reported _diffn_ambient_temperature ..... (K)	293	Check
PLAT794_ALERT_5_G	Tentative Bond Valency for Co (II) .	1.98	Info
PLAT804_ALERT_5_G	Number of ARU-Code Packing Problem(s) in PLATON	1	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	13	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity .....	3.7	Low
PLAT969_ALERT_5_G	The 'Henn et al.' R-Factor-gap value .....	4.45	Note
	Predicted wR2: Based on SigI**2 1.89 or SHELX Weight 8.14		
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.	20	Info

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 11 **ALERT level G** = General information/check it is not something unexpected

3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
 11 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  
 1 ALERT type 4 Improvement, methodology, query or suggestion  
 5 ALERT type 5 Informative message, check

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## Datablock: 3

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Bond precision: C-C = 0.0055 A

Wavelength=0.71073

Cell: a=11.6913(8) b=12.5564(8) c=13.2862(8)  
 alpha=105.7159(18) beta=105.6037(18) gamma=91.3885(19)  
 Temperature: 296 K

	Calculated	Reported
Volume	1798.4(2)	1798.4(2)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C35 H31 Co N6 O10 S, O	?
Sum formula	C35 H31 Co N6 O11 S	C35 H33 Co N6 O11 S
Mr	802.65	804.66
Dx, g cm-3	1.482	1.486
Z	2	2
Mu (mm-1)	0.605	0.605
F000	828.0	832.0
F000'	829.33	
h, k, lmax	14, 15, 16	14, 15, 16
Nref	7084	7082
Tmin, Tmax	0.930, 0.941	
Tmin'	0.886	

Correction method= Not given

Data completeness= 1.000

Theta(max)= 26.000

R(reflections)= 0.0535( 4176)

wR2(reflections)=  
0.1061( 7082)

S = 1.004

Npar= 497

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

PLAT041_ALERT_1_C	Calc. and Reported SumFormula	Strings Differ	Please Check
	Calc: C35 H31 Co N6 O11 S		
	Rep.: C35 H33 Co N6 O11 S		
PLAT043_ALERT_1_C	Calculated and Reported Mol. Weight Differ by ..		2.01 Check
PLAT068_ALERT_1_C	Reported F000 Differs from Calcd (or Missing)...		Please Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of		C29 Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including O11'		0.103 Check
PLAT369_ALERT_2_C	Long C(sp2)-C(sp2) Bond C7 - C8		1.53 Ang.
PLAT369_ALERT_2_C	Long C(sp2)-C(sp2) Bond C21 - C21_e		1.53 Ang.
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance .....		2.942 Check



#### Alert level G

FORMU01\_ALERT\_2\_G There is a discrepancy between the atom counts in the  
     \_chemical\_formula\_sum and the formula from the \_atom\_site\* data.  
     Atom count from \_chemical\_formula\_sum: C35 H33 Co1 N6 O11 S1  
     Atom count from the \_atom\_site data: C35 H31 Co1 N6 O11 S1  
 CELLZ01\_ALERT\_1\_G Difference between formula and atom\_site contents detected.

CELLZ01\_ALERT\_1\_G WARNING: H atoms missing from atom site list. Is this intentional?  
 From the CIF: \_cell\_formula\_units\_Z 2  
 From the CIF: \_chemical\_formula\_sum C35 H33 Co N6 O11 S  
 TEST: Compare cell contents of formula and atom\_site data

atom	Z*formula	cif sites	diff
C	70.00	70.00	0.00
H	66.00	62.00	4.00
Co	2.00	2.00	0.00
N	12.00	12.00	0.00
O	22.00	22.00	0.00
S	2.00	2.00	0.00

PLAT004\_ALERT\_5\_G Polymeric Structure Found with Maximum Dimension 2 Info  
 PLAT007\_ALERT\_5\_G Number of Unrefined Donor-H Atoms ..... 5 Report  
           H2A  H3A  H6A  H10A  H10C  
 PLAT302\_ALERT\_4\_G Anion/Solvent/Minor-Residue Disorder (Resd 2) 100% Note  
 PLAT302\_ALERT\_4\_G Anion/Solvent/Minor-Residue Disorder (Resd 3) 100% Note  
 PLAT311\_ALERT\_2\_G Isolated Disordered Oxygen Atom (No H's ?) ..... 011 Check  
 PLAT311\_ALERT\_2\_G Isolated Disordered Oxygen Atom (No H's ?) ..... 011' Check  
 PLAT794\_ALERT\_5\_G Tentative Bond Valency for Co (II) . 1.91 Info  
 PLAT883\_ALERT\_1\_G No Info/Value for \_atom\_sites\_solution\_primary . Please Do !  
 PLAT899\_ALERT\_4\_G SHELXL2018 is Deprecated and Succeeded by SHELXL 2019/3 Note  
 PLAT967\_ALERT\_5\_G Note: Two-Theta Cutoff Value in Embedded .res .. 52.0 Degree  
 PLAT969\_ALERT\_5\_G The 'Henn et al.' R-Factor-gap value ..... 1.89 Note  
           Predicted wR2: Based on SigI\*\*2 5.62 or SHELX Weight 10.97  
 PLAT978\_ALERT\_2\_G Number C-C Bonds with Positive Residual Density. 0 Info

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6 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
 8 ALERT type 2 Indicator that the structure model may be wrong or deficient  
 1 ALERT type 3 Indicator that the structure quality may be low  
 3 ALERT type 4 Improvement, methodology, query or suggestion  
 5 ALERT type 5 Informative message, check

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## Datablock: 4

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Bond precision: C-C = 0.0070 A

Wavelength=0.71073

Cell: a=13.9967(9) b=14.4949(8) c=14.9094(8)  
       alpha=104.0893(14) beta=93.1620(15) gamma=114.1365(14)  
 Temperature: 296 K

	Calculated	Reported
Volume	2636.1(3)	2636.1(3)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C49 H40 Co2 N6 O17 S2, 3(H2 O), O	?
Sum formula	C49 H46 Co2 N6 O21 S2	C49 H49 Co2 N6 O21 S2
Mr	1236.90	1239.92
Dx, g cm <sup>-3</sup>	1.558	1.562
Z	2	2
Mu (mm <sup>-1</sup> )	0.795	0.795
F000	1272.0	1278.0
F000'	1274.53	
h, k, lmax	17, 17, 18	17, 17, 18
Nref	10361	10361
Tmin, Tmax	0.735, 0.728	0.681, 0.746
Tmin'	0.720	

Correction method= # Reported T Limits: Tmin=0.681 Tmax=0.746  
AbsCorr = MULTI\_SCAN

Data completeness= 1.000                      Theta(max)= 25.999

R(reflections)= 0.0495( 7417)                      wR2(reflections)=  
S = 1.019                      Npar= 776                      0.1364( 10361)

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

PLAT041_ALERT_1_C	Calc. and Reported SumFormula	Strings Differ	Please Check
	Calc: C49 H46 Co2 N6 O21 S2		
	Rep.: C49 H49 Co2 N6 O21 S2		
PLAT042_ALERT_1_C	Calc. and Reported MoietyFormula	Strings Differ	Please Check
	Calc: C49 H40 Co2 N6 O17 S2, 3(H2 O), O		
	Rep.: ?'		
PLAT043_ALERT_1_C	Calculated and Reported Mol. Weight	Differ by ..	3.02 Check
PLAT068_ALERT_1_C	Reported F000 Differs from Calcd (or Missing)...		Please Check
PLAT202_ALERT_3_C	Isotropic non-H Atoms in Anion/Solvent .....		1 Check
	O21		
PLAT213_ALERT_2_C	Atom N6	has ADP max/min Ratio .....	3.3 prolat
PLAT213_ALERT_2_C	Atom C48	has ADP max/min Ratio .....	3.3 prolat
PLAT213_ALERT_2_C	Atom C49	has ADP max/min Ratio .....	3.4 prolat
PLAT220_ALERT_2_C	NonSolvent Resd 1 C	Ueq(max)/Ueq(min) Range	4.9 Ratio
PLAT220_ALERT_2_C	NonSolvent Resd 1 N	Ueq(max)/Ueq(min) Range	3.2 Ratio



PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	N6	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	C21	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	C48	Check
PLAT241_ALERT_2_C	High	'MainMol'	Ueq as Compared to Neighbors of	C49	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C44	Check
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C47	Check
PLAT260_ALERT_2_C	Large	Average Ueq of Residue Including	O20	0.140	Check
PLAT260_ALERT_2_C	Large	Average Ueq of Residue Including	O19	0.164	Check
PLAT329_ALERT_4_C	Carbon Atom Hybridisation Unclear for	.....	C20'	Check	
PLAT334_ALERT_2_C	Small	<C-C> Benzene Dist.	C44 -C49	.	1.37 Ang.
PLAT341_ALERT_3_C	Low	Bond Precision on C-C Bonds	.....	0.00695	Ang.
PLAT369_ALERT_2_C	Long	C(sp2)-C(sp2) Bond	C7 - C8	.	1.53 Ang.
PLAT417_ALERT_2_C	Short	Inter D-H..H-D	H17C ..H19C	.	2.11 Ang.
			1+x,y,z =	1_655	Check
PLAT905_ALERT_3_C	Negative	K value in the Analysis of Variance	...	-2.112	Report
PLAT976_ALERT_2_C	Check	Calcd Resid. Dens.	0.75Ang From O19	.	-0.59 eA-3
PLAT976_ALERT_2_C	Check	Calcd Resid. Dens.	0.75Ang From O19	.	-0.42 eA-3
PLAT976_ALERT_2_C	Check	Calcd Resid. Dens.	0.67Ang From O19	.	-0.42 eA-3
PLAT976_ALERT_2_C	Check	Calcd Resid. Dens.	0.96Ang From O17	.	-0.41 eA-3



### Alert level G

FORMU01\_ALERT\_2\_G There is a discrepancy between the atom counts in the  
     \_chemical\_formula\_sum and the formula from the \_atom\_site\* data.  
     Atom count from \_chemical\_formula\_sum: C49 H49 Co2 N6 O21 S2  
     Atom count from the \_atom\_site data: C49 H46 Co2 N6 O21 S2

CELLZ01\_ALERT\_1\_G Difference between formula and atom\_site contents detected.

CELLZ01\_ALERT\_1\_G WARNING: H atoms missing from atom site list. Is this intentional?  
     From the CIF: \_cell\_formula\_units\_Z 2  
     From the CIF: \_chemical\_formula\_sum C49 H49 Co2 N6 O21 S2  
     TEST: Compare cell contents of formula and atom\_site data

atom	Z*formula	cif sites	diff
C	98.00	98.00	0.00
H	98.00	92.00	6.00
Co	4.00	4.00	0.00
N	12.00	12.00	0.00
O	42.00	42.00	0.00
S	4.00	4.00	0.00

PLAT002\_ALERT\_2\_G Number of Distance or Angle Restraints on AtSite 3 Note

PLAT003\_ALERT\_2\_G Number of Uiso or Uij Restrained non-H Atoms ... 1 Report

PLAT004\_ALERT\_5\_G Polymeric Structure Found with Maximum Dimension 2 Info

PLAT007\_ALERT\_5\_G Number of Unrefined Donor-H Atoms ..... 14 Report

    H2A H3A H16B H16C H17C H17D H20E H20F H18A H18B H19C  
     H19D H18D H18E

PLAT083\_ALERT\_2\_G SHELXL Second Parameter in WGHT Unusually Large 5.86 Why ?

PLAT172\_ALERT\_4\_G The CIF-Embedded .res File Contains DFIX Records 1 Report

PLAT301\_ALERT\_3\_G Main Residue Disorder .....(Resd 1) 5% Note

PLAT302\_ALERT\_4\_G Anion/Solvent/Minor-Residue Disorder (Resd 2) 100% Note

PLAT302\_ALERT\_4\_G Anion/Solvent/Minor-Residue Disorder (Resd 3) 100% Note

PLAT302\_ALERT\_4\_G Anion/Solvent/Minor-Residue Disorder (Resd 5) 100% Note

PLAT302\_ALERT\_4\_G Anion/Solvent/Minor-Residue Disorder (Resd 6) 100% Note

PLAT302\_ALERT\_4\_G Anion/Solvent/Minor-Residue Disorder (Resd 7) 100% Note

PLAT311\_ALERT\_2\_G Isolated Disordered Oxygen Atom (No H's ?) ..... 020' Check

PLAT311\_ALERT\_2\_G Isolated Disordered Oxygen Atom (No H's ?) ..... 021 Check

PLAT311\_ALERT\_2\_G Isolated Disordered Oxygen Atom (No H's ?) ..... 021' Check

PLAT410\_ALERT\_2\_G Short Intra H...H Contact H48A ..H19B . 2.01 Ang.

		x,y,-1+z =	1_554	Check
PLAT414_ALERT_2_G	Short Intra D-H..H-X	H17C ..H19A .	1.92	Ang.
		x,y,z =	1_555	Check
PLAT417_ALERT_2_G	Short Inter D-H..H-D	H3A ..H18A .	1.53	Ang.
		x,y,z =	1_555	Check
PLAT794_ALERT_5_G	Tentative Bond Valency for Co1	(II) .	1.98	Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints .....		2	Note
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .			Please Do !
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity .....		4.5	Low
PLAT965_ALERT_2_G	The SHELXL WEIGHT Optimisation has not Converged			Please Check
PLAT967_ALERT_5_G	Note: Two-Theta Cutoff Value in Embedded .res ..		52.0	Degree
PLAT969_ALERT_5_G	The 'Henn et al.' R-Factor-gap value .....		3.40	Note
	Predicted wR2: Based on SigI**2	4.01 or SHELX Weight	13.91	
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.		0	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  
 28 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
 29 **ALERT level G** = General information/check it is not something unexpected

7 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
 32 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  
 7 ALERT type 4 Improvement, methodology, query or suggestion  
 5 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.

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**PLATON version of 06/01/2024; check.def file version of 05/01/2024**







