

## checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

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: ESY100

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Bond precision:	C-C = 0.0165 A	Wavelength=1.54184
Cell:	a=16.2045 (1)	b=10.6534 (1)      c=23.8480 (2)
	alpha=90	beta=90      gamma=90
Temperature:	200 K	
	Calculated	Reported
Volume	4116.95 (6)	4116.95 (6)
Space group	P n m a	P n m a
Hall group	-P 2ac 2n	-P 2ac 2n
Moiety formula	C38 H51 Au N5 P	C32 H45 Au N5 P, C6 H6
Sum formula	C38 H51 Au N5 P	C38 H51 Au N5 P
Mr	805.78	805.77
Dx, g cm <sup>-3</sup>	1.300	1.300
Z	4	4
Mu (mm <sup>-1</sup> )	7.296	7.296
F000	1632.0	1632.0
F000'	1618.79	
h,k,lmax	20,13,30	20,13,29
Nref	4558	4547
Tmin,Tmax	0.621,0.747	0.415,1.000
Tmin'	0.165	

Correction method= # Reported T Limits: Tmin=0.415 Tmax=1.000  
AbsCorr = MULTI-SCAN

Data completeness= 0.998      Theta(max)= 76.236

R(reflections)= 0.0429 ( 4291)	wR2(reflections)=
S = 1.270	0.1214 ( 4547)
Npar= 328	

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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 B

PLAT220_ALERT_2_B	NonSolvent	Resd 1	C	Ueq(max)/Ueq(min) Range	6.2	Ratio
PLAT242_ALERT_2_B	Low	'MainMol'	Ueq as Compared to Neighbors of	C29	Check	
PLAT330_ALERT_2_B	Large Aver	Phenyl C-C Dist	C1S --C6S	1.43	Ang.	

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### Alert level C

PLAT042_ALERT_1_C	Calc. and Reported MoietyFormula Strings Differ	Please	Check
PLAT213_ALERT_2_C	Atom C31 has ADP max/min Ratio .....	3.9	prolat
PLAT215_ALERT_3_C	Disordered C30 has ADP max/min Ratio .....	3.4	Note
PLAT222_ALERT_3_C	NonSolvent Resd 1 H Uiso(max)/Uiso(min) Range	6.0	Ratio
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	P1	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	N3	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	N5	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	N1	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C1	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C2	Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including Aul	0.107	Check
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds .....	0.0165	Ang.

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### Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	2	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	6	Report
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	18.57	Why ?
PLAT142_ALERT_4_G	s.u. on b - Axis Small or Missing .....	0.00010	Ang.
PLAT143_ALERT_4_G	s.u. on c - Axis Small or Missing .....	0.00020	Ang.
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	1	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	1	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	1	Report
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records	1	Report
PLAT300_ALERT_4_G	Atom Site Occupancy of C1S Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C2S Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C3S Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C4S Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C5 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C5S Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C6 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C6S Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C7 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C8 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C9 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C10 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C11 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C12 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C13 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C14 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C15 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C16 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C17 Constrained at	0.5	Check

[illegible]

PLAT811\_ALERT\_5\_G No ADDSYM Analysis: Too Many Excluded Atoms .... ! Info  
 PLAT822\_ALERT\_4\_G CIF-embedded .res Contains Negative PART Numbers 3 Check  
 PLAT860\_ALERT\_3\_G Number of Least-Squares Restraints ..... 85 Note  
 PLAT899\_ALERT\_4\_G SHELXL2018 is Deprecated and Succeeded by SHELXL 2019/3 Note

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

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

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## Datablock: ESY506

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Bond precision: C-C = 0.0032 A Wavelength=1.54184

Cell: a=20.7310(1) b=16.1721(1) c=26.0458(4)  
 alpha=90 beta=102.725(1) gamma=90

Temperature: 150 K

	Calculated	Reported
Volume	8517.74(15)	8517.74(15)
Space group	I 2/a	I 2/a
Hall group	-I 2ya	-I 2ya
Moiety formula	C38 H51 Au N5 P, C7 H8	C38 H51 Au N5 P, C7 H8
Sum formula	C45 H59 Au N5 P	C45 H59 Au N5 P
Mr	897.91	897.90
Dx, g cm <sup>-3</sup>	1.400	1.400
Z	8	8
Mu (mm <sup>-1</sup> )	7.113	7.113
F000	3664.0	3664.0
F000'	3638.49	
h, k, lmax	26, 20, 32	25, 20, 32
Nref	8918	8876
Tmin, Tmax	0.348, 0.491	0.642, 1.000
Tmin'	0.242	

Correction method= # Reported T Limits: Tmin=0.642 Tmax=1.000  
 AbsCorr = MULTI-SCAN

Data completeness= 0.995

Theta(max)= 76.151

R(reflections)= 0.0181( 8207)

wR2(reflections)=  
0.0439( 8876)

S = 1.044

Npar= 518

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 B

PLAT250\_ALERT\_2\_B Large U3/U1 Ratio for Average U(i,j) Tensor .... 4.4 Note



#### Alert level C

PLAT220_ALERT_2_C	NonSolvent	Resd 1	C	Ueq(max)/Ueq(min) Range	3.5	Ratio
PLAT221_ALERT_2_C	Solv./Anion	Resd 3	C	Ueq(max)/Ueq(min) Range	4.4	Ratio
PLAT223_ALERT_4_C	Solv./Anion	Resd 3	H	Ueq(max)/Ueq(min) Range	4.3	Ratio
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor ....				2.2	Note
PLAT331_ALERT_2_C	Small Aver Phenyl C-C Dist C2R --C7R .				1.37	Ang.



#### Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite				6	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...				14	Report
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large				9.81	Why ?
PLAT142_ALERT_4_G	s.u. on b - Axis Small or Missing .....				0.00010	Ang.
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records				2	Report
PLAT173_ALERT_4_G	The CIF-Embedded .res File Contains DANG Records				2	Report
PLAT174_ALERT_4_G	The CIF-Embedded .res File Contains FLAT Records				2	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records				2	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records				2	Report
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records				1	Report
PLAT300_ALERT_4_G	Atom Site Occupancy of C1R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C2R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C3R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C4R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C5R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C6R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C7R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1R1		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1R2		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1R3		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H3R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H4R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H5R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H6R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H7R		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C1S		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C2S		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C3S		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C4S		Constrained at		0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C5S		Constrained at		0.5	Check

PLAT300_ALERT_4_G	Atom Site Occupancy of C6S	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C7S	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H3S	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1S1	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H4S	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1S2	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H5S	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1S3	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H6S	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H7S	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
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in ..... (Resd 2 )		7.50	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in ..... (Resd 3 )		7.50	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety .....		C1R	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety .....		C1S	Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels .....		6	Note
PLAT789_ALERT_4_G	Atoms with Negative _atom_site_disorder_group #		30	Check
PLAT822_ALERT_4_G	CIF-embedded .res Contains Negative PART Numbers		1	Check
PLAT860_ALERT_3_G	Number of Least-Squares Restraints .....		132	Note
PLAT899_ALERT_4_G	SHELXL2018 is Deprecated and Succeeded by SHELXL		2019/3	Note

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

0 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  
 48 ALERT type 4 Improvement, methodology, query or suggestion  
 0 ALERT type 5 Informative message, check

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## Datablock: AM010

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Bond precision:    C-C = 0.0072 Å                      Wavelength=1.54184

Cell:                      a=12.5798(2)              b=16.7485(2)              c=22.2537(3)  
                               alpha=90                      beta=106.371(2)              gamma=90

Temperature:            150 K

PLAT083_ALERT_2_G	SHELXL	Second Parameter in WGHT	Unusually Large	9.14	Why ?
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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  
 PLAT304\_ALERT\_4\_G Non-Integer Number of Atoms in ..... (Resd 2 ) 6.36 Check  
 PLAT304\_ALERT\_4\_G Non-Integer Number of Atoms in ..... (Resd 3 ) 5.64 Check  
 PLAT899\_ALERT\_4\_G SHELXL2018 is Deprecated and Succeeded by SHELXL 2019/3 Note

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

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  
 1 ALERT type 3 Indicator that the structure quality may be low  
 5 ALERT type 4 Improvement, methodology, query or suggestion  
 0 ALERT type 5 Informative message, check

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## Datablock: AM013B

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Bond precision:	C-C = 0.0175 A	Wavelength=1.54184
Cell:	a=14.1752(4)	b=21.0565(4) c=24.3488(6)
	alpha=94.882(2)	beta=90.052(2) gamma=101.648(2)
Temperature:	150 K	
	Calculated	Reported
Volume	7090.9(3)	7090.9(3)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C62 H76 Au2 N10 P2, C7 H8 [+ solvent]	C62 H76 Au2 N10 P2, C7 H8
Sum formula	C69 H84 Au2 N10 P2 [+ solvent]	C69 H84 Au2 N10 P2
Mr	1509.35	1509.33
Dx, g cm <sup>-3</sup>	1.414	1.414
Z	4	4
Mu (mm <sup>-1</sup> )	8.436	8.436
F000	3024.0	3024.0
F000'	2997.15	
h, k, lmax	16, 25, 28	16, 25, 28
Nref	24990	24975
Tmin, Tmax	0.467, 0.845	0.624, 1.000
Tmin'	0.209	



Correction method= # Reported T Limits: Tmin=0.624 Tmax=1.000  
AbsCorr = MULTI-SCAN

Data completeness= 0.999

Theta(max)= 66.499

R(reflections)= 0.0652( 18771)

wR2(reflections)=  
0.1933( 24975)

S = 1.106

Npar= 1526

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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 B

PLAT213_ALERT_2_B	Atom C59	has ADP max/min Ratio .....	4.6	prolat
PLAT220_ALERT_2_B	NonSolvent Resd 1 C	Ueq(max)/Ueq(min) Range	7.1	Ratio
PLAT220_ALERT_2_B	NonSolvent Resd 2 C	Ueq(max)/Ueq(min) Range	7.6	Ratio
PLAT242_ALERT_2_B	Low 'MainMol'	Ueq as Compared to Neighbors of	C30	Check
PLAT242_ALERT_2_B	Low 'MainMol'	Ueq as Compared to Neighbors of	C48	Check
PLAT242_ALERT_2_B	Low 'MainMol'	Ueq as Compared to Neighbors of	C57	Check
PLAT242_ALERT_2_B	Low 'MainMol'	Ueq as Compared to Neighbors of	C148	Check
PLAT250_ALERT_2_B	Large U3/U1 Ratio for Average U(i,j) Tensor ....		5.7	Note

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#### Alert level C

PLAT213_ALERT_2_C	Atom C32	has ADP max/min Ratio .....	3.3	prolat
PLAT213_ALERT_2_C	Atom C149	has ADP max/min Ratio .....	3.6	prolat
PLAT213_ALERT_2_C	Atom C150	has ADP max/min Ratio .....	4.0	prolat
PLAT222_ALERT_3_C	NonSolvent Resd 1 H	Uiso(max)/Uiso(min) Range	8.0	Ratio
PLAT222_ALERT_3_C	NonSolvent Resd 2 H	Uiso(max)/Uiso(min) Range	9.4	Ratio
PLAT234_ALERT_4_C	Large Hirshfeld Difference C25	--C26	0.17	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C27	--C28	0.24	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C153	--C154	0.16	Ang.
PLAT242_ALERT_2_C	Low 'MainMol'	Ueq as Compared to Neighbors of	C21	Check
PLAT242_ALERT_2_C	Low 'MainMol'	Ueq as Compared to Neighbors of	C33	Check
PLAT242_ALERT_2_C	Low 'MainMol'	Ueq as Compared to Neighbors of	C45	Check
PLAT242_ALERT_2_C	Low 'MainMol'	Ueq as Compared to Neighbors of	C121	Check
PLAT242_ALERT_2_C	Low 'MainMol'	Ueq as Compared to Neighbors of	C130	Check
PLAT242_ALERT_2_C	Low 'MainMol'	Ueq as Compared to Neighbors of	C133	Check
PLAT242_ALERT_2_C	Low 'MainMol'	Ueq as Compared to Neighbors of	C145	Check
PLAT243_ALERT_4_C	High 'Solvent'	Ueq as Compared to Neighbors of	C4T	Check
PLAT244_ALERT_4_C	Low 'Solvent'	Ueq as Compared to Neighbors of	C2T	Check
PLAT244_ALERT_4_C	Low 'Solvent'	Ueq as Compared to Neighbors of	C3T	Check
PLAT244_ALERT_4_C	Low 'Solvent'	Ueq as Compared to Neighbors of	C5T	Check
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor ....		2.7	Note
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including	C1R	0.117	Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including	C1T	0.289	Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including	C1S	0.145	Check
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds .....		0.01746	Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C30 - C31	1.43	Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C30 - C32	1.39	Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C48 - C50	1.42	Ang.

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## ● Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	21	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	25	Report
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	15.88	Why ?
PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)	0.002	Degree
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	11	Report
PLAT175_ALERT_4_G	The CIF-Embedded .res File Contains SAME Records	2	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	4	Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	4	Report
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records	2	Report
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) Au2 --C2 .	6.6	s.u.
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
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in ..... (Resd 3 )	8.25	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in ..... (Resd 5 )	6.75	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety .....	C1R	Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety .....	C1T	Check
PLAT606_ALERT_4_G	Solvent Accessible VOID(S) in Structure .....	!	Info
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels .....	9	Note
PLAT860_ALERT_3_G	Number of Least-Squares Restraints .....	277	Note
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed	!	Info
PLAT899_ALERT_4_G	SHELXL2018 is Deprecated and Succeeded by SHELXL	2019/3	Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity .....	2.9	Low
PLAT967_ALERT_5_G	Note: Two-Theta Cutoff Value in Embedded .res ..	133.0	Degree

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5 ALERT type 3 Indicator that the structure quality may be low  
22 ALERT type 4 Improvement, methodology, query or suggestion  
1 ALERT type 5 Informative message, check

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## Datablock: ESY026

---

Bond precision: C-C = 0.0022 A

Wavelength=1.54184

Cell: a=18.1532(2) b=19.1427(2) c=12.4393(1)  
alpha=90 beta=122.232(1) gamma=90

Temperature: 150 K

	Calculated	Reported
Volume	3656.53(7)	3656.53(7)
Space group	C 2/m	C 2/m
Hall group	-C 2y	-C 2y
Moiety formula	C68 H100 Mg2 N10 P2 [+ solvent]	C68 H100 Mg2 N10 P2
Sum formula	C68 H100 Mg2 N10 P2 [+ solvent]	C68 H100 Mg2 N10 P2
Mr	1168.14	1168.13
Dx, g cm <sup>-3</sup>	1.061	1.061
Z	2	2
Mu (mm <sup>-1</sup> )	1.033	1.033
F000	1264.0	1264.0
F000'	1268.68	
h,k,lmax	22,24,15	22,24,15
Nref	3975	3960
Tmin,Tmax	0.928,0.960	0.957,1.000
Tmin'	0.830	

Correction method= # Reported T Limits: Tmin=0.957 Tmax=1.000  
AbsCorr = MULTI-SCAN

Data completeness= 0.996                      Theta(max)= 76.518

R(reflections)= 0.0346( 3659)                      wR2(reflections)=  
0.1047( 3960)  
S = 1.051                      Npar= 199

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

PLAT329\_ALERT\_4\_C Carbon Atom Hybridisation Unclear for ..... C4 Check



#### Alert level G

PLAT128_ALERT_4_G Alternate Setting for Input Space Group	C2/m	I2/m Note
PLAT143_ALERT_4_G s.u. on c - Axis Small or Missing .....		0.00010 Ang.
PLAT232_ALERT_2_G Hirshfeld Test Diff (M-X) Mg1	--C1 .	6.1 s.u.
PLAT300_ALERT_4_G Atom Site Occupancy of H4B	Constrained at	0.5 Check
PLAT300_ALERT_4_G Atom Site Occupancy of H4C	Constrained at	0.5 Check
PLAT343_ALERT_2_G Unusual sp? Angle Range in Main Residue for		C2 Check
PLAT343_ALERT_2_G Unusual sp? Angle Range in Main Residue for		C5 Check
PLAT367_ALERT_2_G Long? C(sp?)-C(sp?) Bond C2	- C3 .	1.52 Ang.
PLAT367_ALERT_2_G Long? C(sp?)-C(sp?) Bond C2	- C4 .	1.53 Ang.
PLAT380_ALERT_4_G Incorrectly? Oriented X(sp2)-Methyl Moiety .....		C7 Check

PLAT605_ALERT_4_G Largest Solvent Accessible VOID in the Structure	214 A**3
PLAT764_ALERT_4_G Overcomplete CIF Bond List Detected (Rep/Expd) .	1.12 Ratio
PLAT869_ALERT_4_G ALERTS Related to the Use of SQUEEZE Suppressed	! Info
PLAT899_ALERT_4_G SHELXL2018 is Deprecated and Succeeded by SHELXL	2019/3 Note
PLAT941_ALERT_3_G Average HKL Measurement Multiplicity .....	4.7 Low

---

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

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

---

## Datablock: ESY064

---

Bond precision:	C-C = 0.0053 A	Wavelength=1.54184
Cell:	a=13.0652(5)	b=13.1025(6) c=14.2674(7)
	alpha=114.624(4)	beta=113.693(4) gamma=95.063(4)
Temperature:	150 K	
	Calculated	Reported
Volume	1934.9(2)	1934.86(17)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C74 H96 Mg2 N10 P2, C7 H8	C67 H88 Mg2 N10 P2, 2(C7 H8)
Sum formula	C81 H104 Mg2 N10 P2	C81 H104 Mg2 N10 P2
Mr	1328.30	1328.30
Dx, g cm-3	1.140	1.140
Z	1	1
Mu (mm-1)	1.037	1.037
F000	714.0	714.0
F000'	716.56	
h,k,lmax	16,16,17	16,16,17
Nref	8093	7813
Tmin,Tmax	0.883,0.940	0.979,1.000
Tmin'	0.847	
Correction method=	# Reported T Limits: Tmin=0.979 Tmax=1.000	
AbsCorr =	MULTI-SCAN	

Data completeness= 0.965

Theta(max)= 76.095

R(reflections)= 0.0611( 7332)

wR2(reflections)=  
0.1621( 7813)

S = 1.126

Npar= 459

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

PLAT042_ALERT_1_C	Calc. and Reported MoietyFormula Strings Differ	Please Check
PLAT220_ALERT_2_C	NonSolvent Resd 1 C Ueq(max)/Ueq(min) Range	3.1 Ratio
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor ....	3.1 Note
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including C1S	0.116 Check
PLAT340_ALERT_3_C	Low Bond Precision on C-C Bonds .....	0.00531 Ang.



#### Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	7 Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	7 Report
PLAT152_ALERT_1_G	The Supplied and Calc. Volume s.u. Differ by ...	3 Units
PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)	0.004 Degree
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	9 Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	1 Report
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records	1 Report
PLAT300_ALERT_4_G	Atom Site Occupancy of C1S Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C2S Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C3S Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C4S Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C5S Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C6S Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C7S Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1S1 Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1S2 Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1S3 Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H3S Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H4S Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H5S Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H6S Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H7S Constrained at	0.5 Check
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 2 )	100% Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in ..... (Resd 2 )	7.50 Check
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C1 Check
PLAT380_ALERT_4_G	Incorrectly? Oriented X(sp2)-Methyl Moiety .....	C1S Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels .....	3 Note
PLAT789_ALERT_4_G	Atoms with Negative _atom_site_disorder_group #	15 Check
PLAT822_ALERT_4_G	CIF-embedded .res Contains Negative PART Numbers	1 Check
PLAT860_ALERT_3_G	Number of Least-Squares Restraints .....	66 Note
PLAT899_ALERT_4_G	SHELXL2018 is Deprecated and Succeeded by SHELXL	2019/3 Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity .....	2.4 Low

**Datablock: ESY153**

```
R(reflections)= 0.0301( 6575)      wR2(reflections)=
S = 1.038                        0.0869( 7522)
Npar= 408
```

---

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 B

PLAT110_ALERT_2_B	ADDSYM Detects Potential Lattice Translation ...	? Check
PLAT112_ALERT_2_B	ADDSYM Detects New (Pseudo) Symm. Elem I	100 %Fit
PLAT113_ALERT_2_B	ADDSYM Suggests Possible Pseudo/New Space Group	I4/m Check
	Check Model Parameter Symmetry for Reflection Data Support	
PLAT601_ALERT_2_B	Unit Cell Contains Solvent Accessible VOIDS of .	105 Ang**3

---

### Alert level C

PLAT213_ALERT_2_C	Atom C4A	has ADP max/min Ratio .....	3.1 prolat
PLAT220_ALERT_2_C	NonSolvent Resd 1 C	Ueq(max)/Ueq(min) Range	3.6 Ratio
PLAT222_ALERT_3_C	NonSolvent Resd 1 H	Uiso(max)/Uiso(min) Range	4.3 Ratio
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of		C2 Check

---

### Alert level G

PLAT116_ALERT_2_G	ADDSYM Included (Pseudo) Lattice Translation ...	Please Check
PLAT143_ALERT_4_G	s.u. on c - Axis Small or Missing .....	0.00010 Ang.
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 1 )	7% Note
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels .....	9 Note
PLAT899_ALERT_4_G	SHELXL2018 is Deprecated and Succeeded by SHELXL	2019/3 Note

---

0 **ALERT level A** = Most likely a serious problem - resolve or explain  
4 **ALERT level B** = A potentially serious problem, consider carefully  
4 **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

0 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  
2 ALERT type 3 Indicator that the structure quality may be low  
3 ALERT type 4 Improvement, methodology, query or suggestion  
0 ALERT type 5 Informative message, check

---

## Datablock: ESY338

---

Bond precision: C-C = 0.0083 A

Wavelength=1.54184

Cell: a=14.6085(2) b=18.1164(2) c=19.2324(3)

alpha=90 beta=90 gamma=90

Temperature: 150 K

0 **ALERT level A** = Most likely a serious problem - resolve or explain



2 **ALERT level B** = A potentially serious problem, consider carefully  
 5 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
 1 **ALERT level G** = General information/check it is not something unexpected

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
 5 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  
 0 ALERT type 5 Informative message, check

---

## Datablock: AM026

---

Bond precision:	C-C = 0.0062 A	Wavelength=1.54184
Cell:	a=12.4556(2)	b=23.8012(3) c=21.2193(2)
	alpha=90	beta=93.566(1) gamma=90
Temperature:	150 K	
	Calculated	Reported
Volume	6278.46(14)	6278.46(14)
Space group	P 21/n	P 21/n
Hall group	-P 2yn	-P 2yn
Moiety formula	C58 H53 Au B F15 N5 P, 2(C H2 Cl2)	C58 H53 Au B F15 N5 P, 2(C H2 Cl2)
Sum formula	C60 H57 Au B Cl4 F15 N5 P	C60 H57 Au B Cl4 F15 N5 P
Mr	1513.66	1513.65
Dx, g cm <sup>-3</sup>	1.601	1.601
Z	4	4
Mu (mm <sup>-1</sup> )	6.979	6.979
F000	3016.0	3016.0
F000'	3014.55	
h, k, lmax	15, 29, 26	15, 29, 26
Nref	13156	13093
Tmin, Tmax	0.751, 0.756	0.704, 1.000
Tmin'	0.205	

Correction method= # Reported T Limits: Tmin=0.704 Tmax=1.000  
 AbsCorr = MULTI-SCAN

Data completeness= 0.995 Theta(max)= 76.307

R(reflections)= 0.0354( 10875)	wR2(reflections)= 0.0885( 13093)
S = 1.076	Npar= 784

---

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

PLAT213_ALERT_2_C	Atom F13	has ADP max/min Ratio	.....	3.2	prolat
PLAT220_ALERT_2_C	NonSolvent	Resd 1 C	Ueq(max)/Ueq(min) Range	4.0	Ratio
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	C14	Check
PLAT244_ALERT_4_C	Low	'Solvent'	Ueq as Compared to Neighbors of	C1R	Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including	C11S		0.116	Check

---



#### Alert level G

PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT	Unusually Large	11.40	Why ?
PLAT143_ALERT_4_G	s.u. on c - Axis Small or Missing	.....	0.00020	Ang.
PLAT432_ALERT_2_G	Short Inter X...Y Contact	F10 ..C3 .	2.97	Ang.
		1/2-x,1/2+y,1/2-z =	2_555	Check
PLAT434_ALERT_2_G	Short Inter HL..HL Contact	F7 ..F13 .	2.67	Ang.
		-1/2+x,1/2-y,1/2+z =	4_566	Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels	.....	4	Note
PLAT899_ALERT_4_G	SHELXL2018 is Deprecated and Succeeded by SHELXL		2019/3	Note

---

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain  
0 **ALERT level B** = A potentially serious problem, consider carefully  
5 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
6 **ALERT level G** = General information/check it is not something unexpected
- 0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
7 ALERT type 2 Indicator that the structure model may be wrong or deficient  
0 ALERT type 3 Indicator that the structure quality may be low  
4 ALERT type 4 Improvement, methodology, query or suggestion  
0 ALERT type 5 Informative message, check
- 

## Datablock: ESY179

---

Bond precision: C-C = 0.0103 A

Wavelength=1.54184

Cell:	a=8.9844(1)	b=8.9844(1)	c=22.4971(6)
	alpha=90	beta=90	gamma=90

Temperature: 100 K

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

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
1 ALERT type 2 Indicator that the structure model may be wrong or deficient  
3 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

---

## Datablock: ESY503

---

Bond precision: C-C = 0.0041 A Wavelength=1.54184  
Cell: a=13.2814(4) b=6.9637(2) c=13.6715(3)  
alpha=90 beta=96.888(2) gamma=90  
Temperature: 150 K

|                        | Calculated     | Reported       |
|------------------------|----------------|----------------|
| Volume                 | 1255.32(6)     | 1255.32(6)     |
| Space group            | P 21/c         | P 21/c         |
| Hall group             | -P 2ybc        | -P 2ybc        |
| Moiety formula         | C11 H15 I N3 P | C11 H15 I N3 P |
| Sum formula            | C11 H15 I N3 P | C11 H15 I N3 P |
| Mr                     | 347.13         | 347.13         |
| Dx, g cm <sup>-3</sup> | 1.837          | 1.837          |
| Z                      | 4              | 4              |
| Mu (mm <sup>-1</sup> ) | 21.062         | 21.062         |
| F000                   | 680.0          | 680.0          |
| F000'                  | 681.59         |                |
| h, k, lmax             | 16, 8, 17      | 16, 8, 17      |
| Nref                   | 2630           | 2600           |
| Tmin, Tmax             | 0.418, 0.656   | 0.431, 1.000   |
| Tmin'                  | 0.106          |                |

Correction method= # Reported T Limits: Tmin=0.431 Tmax=1.000  
AbsCorr = MULTISCAN

Data completeness= 0.989 Theta(max)= 76.241

R(reflections)= 0.0235( 2108) wR2(reflections)=  
0.0582( 2600)  
S = 1.061 Npar= 145

---

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 G

PLAT899\_ALERT\_4\_G SHELXL2018 is Deprecated and Succeeded by SHELXL 2019/3 Note  
PLAT941\_ALERT\_3\_G Average HKL Measurement Multiplicity ..... 3.3 Low

---

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

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
0 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  
1 ALERT type 4 Improvement, methodology, query or suggestion  
0 ALERT type 5 Informative message, check

---

## Validation response form

Please find below a validation response form (VRF) that can be filled in and pasted into your CIF.

```
# start Validation Reply Form
_vrf_PLAT220_ESY100
;
PROBLEM: NonSolvent   Resd 1  C   Ueq(max)/Ueq(min) Range           6.2 Ratio
RESPONSE: ...
;
_vrf_PLAT242_ESY100
;
PROBLEM: Low         'MainMol' Ueq as Compared to Neighbors of      C29 Check
RESPONSE: ...
;
_vrf_PLAT330_ESY100
;
PROBLEM: Large Aver Phenyl C-C Dist C1S      --C6S      .           1.43 Ang.
RESPONSE: ...
;
_vrf_PLAT250_ESY506
;
PROBLEM: Large U3/U1 Ratio for Average U(i,j) Tensor ....         4.4 Note
RESPONSE: ...
;
_vrf_PLAT220_AM010
;
PROBLEM: NonSolvent   Resd 1  C   Ueq(max)/Ueq(min) Range           7.0 Ratio
RESPONSE: ...
;
_vrf_PLAT242_AM010
;
PROBLEM: Low         'MainMol' Ueq as Compared to Neighbors of      C38 Check
RESPONSE: ...
;
_vrf_PLAT213_AM013B
;
PROBLEM: Atom C59                has ADP max/min Ratio .....         4.6 prolat
RESPONSE: ...
```

```

;
_vrf_PLAT220_AM013B
;
PROBLEM: NonSolvent   Resd 1   C   Ueq(max)/Ueq(min) Range       7.1 Ratio
RESPONSE: ...
;
_vrf_PLAT242_AM013B
;
PROBLEM: Low        'MainMol' Ueq as Compared to Neighbors of   C30 Check
RESPONSE: ...
;
_vrf_PLAT250_AM013B
;
PROBLEM: Large U3/U1 Ratio for Average U(i,j) Tensor ....     5.7 Note
RESPONSE: ...
;
_vrf_PLAT110_ESY153
;
PROBLEM: ADDSYM Detects Potential Lattice Translation ...       ? Check
RESPONSE: ...
;
_vrf_PLAT112_ESY153
;
PROBLEM: ADDSYM Detects New (Pseudo) Symm. Elem                I       100 %Fit
RESPONSE: ...
;
_vrf_PLAT113_ESY153
;
PROBLEM: ADDSYM Suggests Possible Pseudo/New Space Group       I4/m Check
RESPONSE: ...
;
_vrf_PLAT601_ESY153
;
PROBLEM: Unit Cell Contains Solvent Accessible VOIDS of .     105 Ang**3
RESPONSE: ...
;
_vrf_PLAT220_ESY338
;
PROBLEM: NonSolvent   Resd 1   C   Ueq(max)/Ueq(min) Range       7.5 Ratio
RESPONSE: ...
;
_vrf_PLAT242_ESY338
;
PROBLEM: Low        'MainMol' Ueq as Compared to Neighbors of   C11 Check
RESPONSE: ...
;
# end Validation Reply Form

```

---

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.

























