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Reactions of cationic palladium alpha-diimine complexes with nitrogen-containing olefins

Li, Weidong; Zhang, Xiaochun; Meetsma, Auke; Hessen, Bart

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# 1. SUBMISSION DETAILS

_publ_contact_author_name # Name of author for correspondence
;
  Drs. A. Meetsma
;
_publ_contact_author_address # Address of author for correspondence
;
  Crystal Structure Center, Chemical Physics,
  Zernike Institute for Advanced Materials,
  University of Groningen,
  Nijenborgh 4,
  NL-9747 AG Groningen, The Netherlands.
;

_publ_contact_author_email A.Meetsma@rug.nl
_publ_contact_author_fax '+31 50 3634441'
_publ_contact_author_phone '+31 50 3634368'

_publ_requested_journal 'Organometallics'
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_publ_requested_coeditor_name ?

_publ_contact_letter # Include date of submission
;
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# 2. PROCESSING SUMMARY (JOURNAL OFFICE ONLY)

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_journal_page_first ?

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3. TITLE AND AUTHOR LIST

_publ_section_title

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?

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_publ_section_title_footnote

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?

;

The loop structure below should contain the names and addresses of all

authors, in the required order of publication. Repeat as necessary.

loop_

_publ_author_name

_publ_author_footnote

_publ_author_address

'Meetsma, Auke'

;

? # author related footnote

;

;

Crystal Structure Center, Chemical Physics,
Zernike Institute for Advanced Materials,
University of Groningen,

Nijenborgh 4,
NL-9747 AG Groningen, The Netherlands.

;

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4. TEXT

_publ_section_synopsis

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Insert blank lines between paragraphs

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_publ_section_exptl_prep

;

The structure was solved by Patterson methods and extension of the model was accomplished by direct methods applied to difference structure factors using the program DIRDIF. The positional and anisotropic displacement parameters for the non-hydrogen atoms were refined. Some atoms showed unrealistic displacement parameters when allowed to vary anisotropically, suggesting dynamic disorder (dynamic means that the smeared electron density is due to fluctuations of the atomic positions within each unit cell). The smeared electron density for F222...F224 has been described by two site occupancy factors, each with a value of 0.5, with separately refined displacement parameters.

The hydrogen atoms were included in the final refinement riding on their carrier atoms with their positions calculated by using sp² or sp³ hybridization at the C-atom as appropriate with $U_{iso} = c \times U_{equiv}$ of their parent atom, where $c = 1.2$ for the non-methyl hydrogen atoms and $c = 1.5$ for the methyl hydrogen atoms and where values U_{equiv} are related to the atoms to which the hydrogen atoms are bonded. The methyl-groups were refined as rigid groups, which were allowed to rotate freely.

;

_publ_section_exptl_refinement

;

?

;

Insert blank lines between references

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;

Beurskens, P.T., Beurskens, G., Gelder, R. de Garc'ia-Granda, S.
Gould, R.O. Israel, & Smits, J.M.M. (1999).

The DIRDIF99 program system, Technical Report of the Crystallography
Laboratory, University of Nijmegen, The Netherlands.

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Software Reference Manual Bruker AXS Inc. Madison, Wisconsin, USA.

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Space-group symmetry, edited by T. Hahn. Dordrecht: Reidel.
(Present distributor Kluwer Academic Publishers, Dordrecht).

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Edited by A.J.C Wilson, Kluwer Academic Publishers,
Dordrecht, The Netherlands.

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Refinement. University of Göttingen, Germany, 1997.

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Spek, A.L. (1990). Acta Cryst. A46, C-34.

Spek, A.L. (1994). Am. Crystallogr. Assoc.-Abstracts, 22, 66.

;

_publ_section_figure_captions

;

Fig. 1. Chemical structural diagram (scheme 1) of the title compound

Fig. 2. Perspective PLUTO drawing of the molecule illustrating the
configuration and the adopted numbering scheme.

Fig. 3. Molecular packing viewed down unit cell axes.

Fig. 4. Perspective ORTEP drawing of the title compound.
Displacement ellipsoids for non-H are represented at the 50%
probability level.
The H-atoms have been omitted to improve clarity.

;

#=====

5. CHEMICAL DATA

_chemical_name_systematic

; ?

;

_chemical_name_common ?

_chemical_melting_point ?

_chemical_formula_moiety

'C46 H59 N3 Pd, C32 H12 B F24'

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'C78 H71 B F24 N3 Pd'  
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N N 0.0061 0.0033  
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F F 0.0171 0.0103  
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B B 0.0013 0.0007  
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C C 0.0033 0.0016  
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6. CRYSTAL DATA

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_symmetry_space_group_name_H-M 'P 21/n'  
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x, y, z  
1/2-x, 1/2+y, 1/2-z  
-x, -y, -z  
1/2+x, 1/2-y, 1/2+z
```

```
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_cell_length_b 15.7270(7)  
_cell_length_c 36.571(2)  
_cell_angle_alpha 90  
_cell_angle_beta 91.951(1)  
_cell_angle_gamma 90  
_cell_volume 7406.3(6)  
_cell_formula_units_Z 4
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_cell_measurement_theta_max 24.27  
_cell_special_details
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The final unit cell was obtained from the xyz centroids of 6429 reflections after integration using the SAINT software package (Bruker, 2000).

```

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_exptl_crystal_size_min 0.11
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_exptl_absorpt_correction_type 'Multi-Scan'
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# 7. EXPERIMENTAL DATA

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  CCD area-detector
;
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;
  Bruker Smart Apex
;
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  Crystal into the cold nitrogen stream of the low-temperature unit
  (KRYOFLEX, (Bruker, 2000)).
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loop_
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_diffn_standard_refl_index_k
_diffn_standard_refl_index_l
? ? ?

# number of measured reflections (redundant set)
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_diffn_reflns_av_R_equivalents 0.0384
_diffn_reflns_av_sigmaI/netI 0.0464
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_diffrn_reflms_limit_l_max 45
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_diffrn_reflms_theta_full 25.00
_diffrn_measured_fraction_theta_full 0.999

_diffrn_reflms_reduction_process
;
Intensity data were corrected for Lorentz and polarization
effects, decay and absorption and reduced to  $F_o \sim F^2$ 
using SAINT (Bruker, 2000) and SADABS (Sheldrick, 2001)
;

# number of unique reflections
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_reflms_number_gt 11677
_reflms_threshold_expression I>2\s(I)

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_computing_structure_solution
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DIRDIF-99 (Beurskens et al., 1999)
;
_computing_structure_refinement 'SHELXL-97 (Sheldrick, 1997)'
_computing_molecular_graphics
;
PLUTO (Meetsma, 2003)
PLATON (Spek, 1994)
;
_computing_publication_material 'PLATON (Spek, 1990)'

#=====

# 8. REFINEMENT DATA

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Refinement of  $F^2$  against ALL reflections. The weighted R-factor wR and
goodness of fit S are based on  $F^2$ , conventional R-factors R are based
on F, with F set to zero for negative  $F^2$ . The threshold expression of
 $F^2 > 2\sigma(F^2)$  is used only for calculating R-factors(gt) etc. and is
not relevant to the choice of reflections for refinement. R-factors based
on  $F^2$  are statistically about twice as large as those based on F, and R-
factors based on ALL data will be even larger.
;

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_refine_ls_weighting_details
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_atom_sites_solution_primary heavy

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_atom_sites_solution_secondary direct
_atom_sites_solution_hydrogens geom
_refine_ls_hydrogen_treatment constr
_refine_ls_extinction_method none
_refine_ls_extinction_coef ?
_refine_ls_abs_structure_details ?
_chemical_absolute_configuration ?

_refine_ls_abs_structure_Flack ?
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_refine_diff_density_rms 0.097

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9. ATOMIC COORDINATES AND DISPLACEMENT PARAMETERS

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_atom_site_occupancy
_atom_site_U_iso_or_equiv
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_atom_site_refinement_flags
Pd1 Pd Uani 0.37780(3) 0.52999(2) 0.12582(1) 1.000 0.0377(1) . . .
N11 N Uani 0.3365(3) 0.6317(2) 0.15887(10) 1.000 0.0346(11) . . .
N12 N Uani 0.2261(3) 0.4983(2) 0.14384(10) 1.000 0.0344(11) . . .
N13 N Uani 0.4682(4) 0.4548(3) 0.09152(14) 1.000 0.0547(16) . . .
C11 C Uani 0.4033(4) 0.7057(3) 0.16286(12) 1.000 0.0373(14) . . .
C12 C Uani 0.3960(4) 0.7653(3) 0.13530(14) 1.000 0.0496(18) . . .
C13 C Uani 0.4623(5) 0.8358(3) 0.13828(15) 1.000 0.060(2) . . .
C14 C Uani 0.5311(5) 0.8446(3) 0.16765(15) 1.000 0.0571(19) . . .
C15 C Uani 0.5361(4) 0.7834(3) 0.19477(14) 1.000 0.0501(17) . . .
C16 C Uani 0.4730(4) 0.7118(3) 0.19310(12) 1.000 0.0376(14) . . .
C17 C Uani 0.3201(6) 0.7559(4) 0.10285(17) 1.000 0.073(3) . . .
C18 C Uani 0.3616(10) 0.7865(6) 0.0670(2) 1.000 0.143(5) . . .
C19 C Uani 0.2152(7) 0.7991(5) 0.1115(3) 1.000 0.111(4) . . .
C110 C Uani 0.4784(4) 0.6433(3) 0.22219(13) 1.000 0.0483(17) . . .
C111 C Uani 0.5238(7) 0.6708(5) 0.25850(17) 1.000 0.091(3) . . .
C112 C Uani 0.5383(7) 0.5646(4) 0.20872(19) 1.000 0.086(3) . . .

C113	C	Uani	0.2513(4)	0.6271(3)	0.17570(14)	1.000	0.0415(16)	. .
C114	C	Uani	0.2131(4)	0.6919(3)	0.20188(18)	1.000	0.0600(19)	. .
C115	C	Uani	0.1856(4)	0.5503(3)	0.16636(14)	1.000	0.0417(16)	. .
C116	C	Uani	0.0814(4)	0.5419(3)	0.18266(18)	1.000	0.0580(19)	. .
C117	C	Uani	0.1718(3)	0.4246(3)	0.12908(12)	1.000	0.0327(12)	. .
C118	C	Uani	0.2009(3)	0.3451(3)	0.14263(12)	1.000	0.0351(12)	. .
C119	C	Uani	0.1582(4)	0.2737(3)	0.12492(13)	1.000	0.0378(16)	. .
C120	C	Uani	0.0920(3)	0.2826(3)	0.09481(13)	1.000	0.0370(14)	. .
C121	C	Uani	0.0657(4)	0.3617(3)	0.08193(13)	1.000	0.0398(16)	. .
C122	C	Uani	0.1036(4)	0.4352(3)	0.09895(13)	1.000	0.0408(16)	. .
C123	C	Uani	0.2778(4)	0.3361(3)	0.17494(13)	1.000	0.0447(16)	. .
C124	C	Uani	0.2267(6)	0.3545(5)	0.21061(15)	1.000	0.071(3)	. .
C125	C	Uani	0.3310(4)	0.2502(3)	0.17718(15)	1.000	0.0503(17)	. .
C126	C	Uani	0.0704(5)	0.5240(3)	0.08475(17)	1.000	0.059(2)	. .
C127	C	Uani	-0.0396(6)	0.5240(5)	0.0667(3)	1.000	0.099(4)	. .
C128	C	Uani	0.1480(6)	0.5564(5)	0.0589(2)	1.000	0.082(3)	. .
C129	C	Uani	0.5067(4)	0.3751(3)	0.10678(17)	1.000	0.0525(19)	. .
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C131	C	Uani	0.5829(4)	0.2760(4)	0.14835(19)	1.000	0.064(2)	. .
C132	C	Uani	0.5650(4)	0.2104(4)	0.1230(2)	1.000	0.064(2)	. .
C133	C	Uani	0.5178(4)	0.2267(4)	0.09029(17)	1.000	0.0560(19)	. .
C134	C	Uani	0.4871(4)	0.3099(3)	0.08160(17)	1.000	0.0526(19)	. .
C135	C	Uani	0.4373(5)	0.3474(4)	0.04936(17)	1.000	0.060(2)	. .
C136	C	Uani	0.3993(6)	0.3127(4)	0.01686(17)	1.000	0.073(3)	. .
C137	C	Uani	0.3523(7)	0.3657(5)	-0.0091(2)	1.000	0.092(3)	. .
C138	C	Uani	0.3434(8)	0.4528(5)	-0.0031(2)	1.000	0.094(3)	. .
C139	C	Uani	0.3822(7)	0.4892(4)	0.02968(19)	1.000	0.078(3)	. .
C140	C	Uani	0.4258(5)	0.4356(4)	0.05522(16)	1.000	0.0589(19)	. .
C141	C	Uani	0.5102(5)	0.5390(4)	0.0983(2)	1.000	0.071(3)	. .
C142	C	Uani	0.6147(6)	0.5525(5)	0.1111(2)	1.000	0.081(3)	. .
C143	C	Uani	0.6406(6)	0.6471(4)	0.11555(19)	1.000	0.078(3)	. .
C144	C	Uani	0.7507(6)	0.6673(6)	0.1189(3)	1.000	0.094(3)	. .
C145	C	Uani	0.7777(9)	0.7570(7)	0.1238(3)	1.000	0.132(4)	. .
C146	C	Uani	0.8012(9)	0.6286(7)	0.1492(5)	1.000	0.186(8)	. .

H13	H	Uiso	0.45974	0.87819	0.11974	1.000	0.0714	. .
H14	H	Uiso	0.57529	0.89288	0.16929	1.000	0.0686	. .
H15	H	Uiso	0.58372	0.79051	0.21496	1.000	0.0602	. .
H17	H	Uiso	0.30573	0.69368	0.09998	1.000	0.0878	. .
H18	H	Uiso	0.36194	0.84881	0.06655	1.000	0.2147	. .
H18'	H	Uiso	0.31729	0.76518	0.04667	1.000	0.2147	. .
H18''	H	Uiso	0.43257	0.76537	0.06440	1.000	0.2147	. .
H19	H	Uiso	0.19065	0.77739	0.13478	1.000	0.1665	. .
H19'	H	Uiso	0.16376	0.78632	0.09191	1.000	0.1665	. .
H19''	H	Uiso	0.22516	0.86073	0.11322	1.000	0.1665	. .
H110	H	Uiso	0.40553	0.62459	0.22627	1.000	0.0578	. .
H111	H	Uiso	0.59646	0.68734	0.25581	1.000	0.1367	. .
H111'	H	Uiso	0.52011	0.62371	0.27595	1.000	0.1367	. .
H111''	H	Uiso	0.48448	0.71940	0.26751	1.000	0.1367	. .
H112	H	Uiso	0.61167	0.57921	0.20636	1.000	0.1289	. .
H112'	H	Uiso	0.50896	0.54655	0.18489	1.000	0.1289	. .
H112''	H	Uiso	0.53209	0.51817	0.22640	1.000	0.1289	. .
H114	H	Uiso	0.26579	0.73625	0.20564	1.000	0.0904	. .
H114'	H	Uiso	0.19945	0.66456	0.22531	1.000	0.0904	. .
H114''	H	Uiso	0.14882	0.71749	0.19185	1.000	0.0904	. .
H116	H	Uiso	0.05005	0.48756	0.17516	1.000	0.0872	. .
H116'	H	Uiso	0.03666	0.58870	0.17412	1.000	0.0872	. .
H116''	H	Uiso	0.08914	0.54380	0.20940	1.000	0.0872	. .
H119	H	Uiso	0.17502	0.21840	0.13379	1.000	0.0454	. .
H120	H	Uiso	0.06441	0.23350	0.08288	1.000	0.0447	. .

H121 H Uiso 0.02068 0.36665 0.06093 1.000 0.0479 . .
H123 H Uiso 0.33314 0.37995 0.17191 1.000 0.0539 . .
H124 H Uiso 0.19516 0.41116 0.20958 1.000 0.1066 . .
H124' H Uiso 0.27892 0.35233 0.23071 1.000 0.1066 . .
H124" H Uiso 0.17287 0.31184 0.21470 1.000 0.1066 . .
H125 H Uiso 0.27982 0.20633 0.18274 1.000 0.0750 . .
H125' H Uiso 0.38544 0.25136 0.19654 1.000 0.0750 . .
H125" H Uiso 0.36195 0.23735 0.15371 1.000 0.0750 . .
H126 H Uiso 0.07007 0.56341 0.10619 1.000 0.0706 . .
H127 H Uiso -0.06496 0.58265 0.06457 1.000 0.1485 . .
H127' H Uiso -0.08648 0.49102 0.08177 1.000 0.1485 . .
H127" H Uiso -0.03735 0.49851 0.04229 1.000 0.1485 . .
H128 H Uiso 0.21740 0.55494 0.07076 1.000 0.1227 . .
H128' H Uiso 0.13065 0.61504 0.05201 1.000 0.1227 . .
H128" H Uiso 0.14717 0.52062 0.03697 1.000 0.1227 . .
H130 H Uiso 0.56451 0.40319 0.15740 1.000 0.0698 . .
H131 H Uiso 0.61583 0.26373 0.17138 1.000 0.0765 . .
H132 H Uiso 0.58627 0.15407 0.12889 1.000 0.0768 . .
H133 H Uiso 0.50543 0.18202 0.07322 1.000 0.0670 . .
H136 H Uiso 0.40529 0.25342 0.01236 1.000 0.0873 . .
H137 H Uiso 0.32558 0.34213 -0.03137 1.000 0.1096 . .
H138 H Uiso 0.31080 0.48786 -0.02124 1.000 0.1123 . .
H139 H Uiso 0.37833 0.54867 0.03389 1.000 0.0936 . .
H142 H Uiso 0.66255 0.52677 0.09361 1.000 0.0975 . .
H142' H Uiso 0.62590 0.52362 0.13497 1.000 0.0975 . .
H143 H Uiso 0.61025 0.67809 0.09419 1.000 0.0936 . .
H143' H Uiso 0.60651 0.66852 0.13758 1.000 0.0936 . .
H144 H Uiso 0.78430 0.64660 0.09628 1.000 0.1125 . .
H145 H Uiso 0.75150 0.78966 0.10265 1.000 0.1975 . .
H145' H Uiso 0.85334 0.76287 0.12615 1.000 0.1975 . .
H145" H Uiso 0.74628 0.77854 0.14604 1.000 0.1975 . .
H146 H Uiso 0.86860 0.65612 0.15393 1.000 0.2777 . .
H146' H Uiso 0.81190 0.56814 0.14403 1.000 0.2777 . .
H146" H Uiso 0.75849 0.63461 0.17067 1.000 0.2777 . .

F21 F Uani 1.2685(3) 0.14707(19) 0.05652(9) 1.000 0.0584(11) . .
F22 F Uani 1.2317(3) 0.0195(2) 0.03943(9) 1.000 0.0680(12) . .
F23 F Uani 1.3700(3) 0.0450(3) 0.07142(11) 1.000 0.0771(15) . .
F24 F Uani 1.2758(3) -0.0760(2) 0.20490(9) 1.000 0.0761(13) . .
F25 F Uani 1.2121(3) 0.0333(3) 0.22919(10) 1.000 0.0993(18) . .
F26 F Uani 1.3559(3) 0.0384(3) 0.20331(14) 1.000 0.119(2) . .
F27 F Uani 0.9579(3) -0.2315(3) 0.20573(13) 1.000 0.0971(17) . .
F28 F Uani 0.9620(9) -0.1662(4) 0.2543(2) 1.000 0.254(5) . .
F29 F Uani 0.8351(5) -0.2350(3) 0.2394(2) 1.000 0.159(3) . .
F210 F Uani 0.6727(4) 0.0884(4) 0.25690(18) 1.000 0.144(3) . .
F211 F Uani 0.5772(3) -0.0088(3) 0.24113(12) 1.000 0.0930(17) . .
F212 F Uani 0.5910(4) 0.0957(4) 0.20665(16) 1.000 0.164(3) . .
F213 F Uani 0.9590(3) 0.3516(2) 0.18538(9) 1.000 0.0597(11) . .
F214 F Uani 0.8081(3) 0.3153(3) 0.20034(10) 1.000 0.0779(14) . .
F215 F Uani 0.8289(4) 0.4209(2) 0.16444(12) 1.000 0.0994(18) . .
F216 F Uani 0.7123(3) 0.3524(3) 0.04244(9) 1.000 0.0761(14) . .
F217 F Uani 0.7174(4) 0.2259(3) 0.02376(11) 1.000 0.1072(18) . .
F218 F Uani 0.8493(3) 0.3057(3) 0.01985(8) 1.000 0.0687(13) . .
F219 F Uani 0.5830(3) -0.1040(3) 0.01558(14) 1.000 0.112(2) . .
F220 F Uani 0.5555(3) -0.0437(3) 0.06741(11) 1.000 0.0822(18) . .
F221 F Uani 0.6038(3) 0.0245(3) 0.02248(15) 1.000 0.106(2) . .
F2221 F Uani 1.0347(12) -0.2201(11) 0.0427(3) 0.500 0.093(6) . .
F2222 F Uani 0.9923(15) -0.2534(9) 0.0454(6) 0.500 0.131(8) . .
F2231 F Uani 1.0605(7) -0.1549(8) 0.0212(4) 0.500 0.086(4) . .
F2232 F Uani 0.9895(14) -0.1565(8) -0.0057(4) 0.500 0.110(6) . .

F2241 F Uani 0.9062(9) -0.2621(6) 0.0147(3) 0.500 0.082(4) . .
F2242 F Uani 0.9336(14) -0.2130(17) -0.0069(4) 0.500 0.163(8) . .
C21 C Uani 1.0429(3) 0.0408(2) 0.12980(11) 1.000 0.0273(11) . .
C22 C Uani 1.1028(3) 0.0538(3) 0.09915(12) 1.000 0.0317(12) . .
C23 C Uani 1.2114(4) 0.0524(3) 0.10152(13) 1.000 0.0385(14) . .
C24 C Uani 1.2650(4) 0.0386(3) 0.13437(15) 1.000 0.0428(14) . .
C25 C Uani 1.2071(4) 0.0265(3) 0.16509(13) 1.000 0.0386(14) . .
C26 C Uani 1.0982(3) 0.0282(3) 0.16282(11) 1.000 0.0328(12) . .
C27 C Uani 1.2704(4) 0.0662(3) 0.06723(16) 1.000 0.0505(17) . .
C28 C Uani 1.2610(4) 0.0058(4) 0.20081(16) 1.000 0.0514(17) . .
C29 C Uani 0.8614(3) 0.0035(3) 0.16228(10) 1.000 0.0276(11) . .
C210 C Uani 0.8989(3) -0.0718(3) 0.17832(11) 1.000 0.0334(12) . .
C211 C Uani 0.8568(4) -0.1062(3) 0.20962(12) 1.000 0.0387(14) . .
C212 C Uani 0.7724(4) -0.0685(3) 0.22538(12) 1.000 0.0416(16) . .
C213 C Uani 0.7312(4) 0.0036(3) 0.20935(12) 1.000 0.0389(14) . .
C214 C Uani 0.7754(3) 0.0397(3) 0.17852(11) 1.000 0.0314(12) . .
C215 C Uani 0.9060(6) -0.1830(4) 0.22706(16) 1.000 0.065(2) . .
C216 C Uani 0.6414(5) 0.0442(4) 0.22664(18) 1.000 0.061(2) . .
C217 C Uani 0.8791(3) 0.1396(3) 0.11725(10) 1.000 0.0270(11) . .
C218 C Uani 0.8855(3) 0.2003(3) 0.14537(11) 1.000 0.0304(12) . .
C219 C Uani 0.8544(3) 0.2839(3) 0.14025(12) 1.000 0.0352(12) . .
C220 C Uani 0.8158(3) 0.3122(3) 0.10669(12) 1.000 0.0376(14) . .
C221 C Uani 0.8114(3) 0.2542(3) 0.07819(12) 1.000 0.0353(14) . .
C222 C Uani 0.8417(3) 0.1705(3) 0.08324(11) 1.000 0.0302(11) . .
C223 C Uani 0.8621(4) 0.3434(3) 0.17191(14) 1.000 0.0459(17) . .
C224 C Uani 0.7724(4) 0.2834(3) 0.04101(13) 1.000 0.0471(17) . .
C225 C Uani 0.8737(3) -0.0214(3) 0.09187(10) 1.000 0.0295(11) . .
C226 C Uani 0.7691(3) -0.0181(3) 0.08086(12) 1.000 0.0364(14) . .
C227 C Uani 0.7278(4) -0.0667(3) 0.05230(13) 1.000 0.0428(14) . .
C228 C Uani 0.7899(4) -0.1239(3) 0.03406(13) 1.000 0.0447(16) . .
C229 C Uani 0.8929(4) -0.1298(3) 0.04466(13) 1.000 0.0429(16) . .
C230 C Uani 0.9342(3) -0.0795(3) 0.07300(11) 1.000 0.0338(12) . .
C231 C Uani 0.6175(4) -0.0536(5) 0.04010(18) 1.000 0.064(2) . .
C232 C Uani 0.9628(5) -0.1886(4) 0.02465(17) 1.000 0.061(2) . .
B2 B Uani 0.9153(4) 0.0406(3) 0.12530(11) 1.000 0.0258(11) . .

H22 H Uiso 1.06893 0.06397 0.07609 1.000 0.0381 . .
H24 H Uiso 1.33869 0.03746 0.13579 1.000 0.0516 . .
H26 H Uiso 1.06081 0.02063 0.18453 1.000 0.0393 . .
H210 H Uiso 0.95507 -0.10037 0.16749 1.000 0.0399 . .
H212 H Uiso 0.74352 -0.09177 0.24674 1.000 0.0498 . .
H214 H Uiso 0.74611 0.09028 0.16838 1.000 0.0379 . .
H218 H Uiso 0.91223 0.18338 0.16879 1.000 0.0365 . .
H220 H Uiso 0.79316 0.36922 0.10330 1.000 0.0447 . .
H222 H Uiso 0.83721 0.13267 0.06300 1.000 0.0361 . .
H226 H Uiso 0.72432 0.01902 0.09345 1.000 0.0433 . .
H228 H Uiso 0.76183 -0.15800 0.01472 1.000 0.0538 . .
H230 H Uiso 1.00575 -0.08490 0.07971 1.000 0.0406 . .

loop_

_atom_site_aniso_label
_atom_site_aniso_U_11
_atom_site_aniso_U_22
_atom_site_aniso_U_33
_atom_site_aniso_U_23
_atom_site_aniso_U_13
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Pd1 0.0362(2) 0.0279(2) 0.0487(2) -0.0073(2) -0.0016(1) -0.0070(1)
N11 0.042(2) 0.0229(18) 0.0380(19) -0.0005(14) -0.0122(16) -0.0019(15)

N12 0.0312(19) 0.0266(18) 0.045(2) -0.0003(15) -0.0032(16) -0.0029(15)
N13 0.048(3) 0.039(2) 0.078(3) -0.014(2) 0.017(2) -0.013(2)
C11 0.049(3) 0.023(2) 0.039(2) -0.0021(17) -0.012(2) -0.0043(19)
C12 0.069(4) 0.030(2) 0.048(3) 0.007(2) -0.023(2) -0.010(2)
C13 0.094(5) 0.034(3) 0.049(3) 0.015(2) -0.021(3) -0.021(3)
C14 0.077(4) 0.038(3) 0.055(3) 0.003(2) -0.016(3) -0.025(3)
C15 0.060(3) 0.043(3) 0.046(3) -0.004(2) -0.018(2) -0.016(2)
C16 0.046(3) 0.033(2) 0.033(2) -0.0028(18) -0.0108(19) -0.004(2)
C17 0.113(6) 0.037(3) 0.065(4) 0.016(3) -0.058(4) -0.019(3)
C18 0.246(13) 0.119(7) 0.058(4) 0.037(5) -0.079(6) -0.081(8)
C19 0.109(7) 0.068(5) 0.149(8) 0.014(5) -0.088(6) 0.004(4)
C110 0.062(3) 0.043(3) 0.039(3) 0.006(2) -0.013(2) -0.009(2)
C111 0.143(8) 0.081(5) 0.047(4) 0.007(3) -0.019(4) -0.008(5)
C112 0.129(7) 0.065(4) 0.062(4) 0.015(3) -0.015(4) 0.024(4)
C113 0.039(3) 0.031(2) 0.054(3) -0.007(2) -0.005(2) 0.004(2)
C114 0.048(3) 0.038(3) 0.094(4) -0.027(3) 0.001(3) 0.001(2)
C115 0.043(3) 0.028(2) 0.054(3) -0.005(2) -0.002(2) 0.0023(19)
C116 0.045(3) 0.044(3) 0.086(4) -0.022(3) 0.015(3) -0.004(2)
C117 0.028(2) 0.027(2) 0.043(2) -0.0050(17) 0.0015(17) -0.0022(17)
C118 0.036(2) 0.030(2) 0.039(2) -0.0012(18) -0.0029(18) -0.0039(18)
C119 0.041(3) 0.024(2) 0.048(3) 0.0007(18) -0.006(2) -0.0026(19)
C120 0.035(2) 0.029(2) 0.047(3) -0.0065(19) 0.0001(19) -0.0080(18)
C121 0.039(3) 0.042(3) 0.038(2) 0.001(2) -0.0048(19) -0.003(2)
C122 0.043(3) 0.031(2) 0.048(3) 0.003(2) -0.004(2) -0.003(2)
C123 0.056(3) 0.032(2) 0.045(3) -0.001(2) -0.013(2) -0.007(2)
C124 0.089(5) 0.081(5) 0.042(3) -0.013(3) -0.009(3) 0.030(4)
C125 0.055(3) 0.046(3) 0.049(3) 0.003(2) -0.012(2) 0.001(2)
C126 0.062(4) 0.043(3) 0.070(4) 0.013(3) -0.024(3) -0.008(3)
C127 0.068(5) 0.056(4) 0.170(9) 0.030(5) -0.037(5) 0.005(3)
C128 0.079(5) 0.070(4) 0.095(5) 0.030(4) -0.018(4) -0.007(4)
C129 0.032(3) 0.049(3) 0.077(4) -0.015(3) 0.008(2) -0.012(2)
C130 0.037(3) 0.050(3) 0.088(4) -0.019(3) 0.005(3) -0.006(2)
C131 0.032(3) 0.075(4) 0.084(4) -0.008(3) -0.002(3) -0.002(3)
C132 0.039(3) 0.056(4) 0.097(5) -0.013(3) 0.010(3) 0.005(3)
C133 0.043(3) 0.048(3) 0.078(4) -0.018(3) 0.015(3) -0.009(2)
C134 0.039(3) 0.043(3) 0.077(4) -0.014(3) 0.019(3) -0.012(2)
C135 0.065(4) 0.047(3) 0.070(4) -0.012(3) 0.025(3) -0.008(3)
C136 0.101(5) 0.063(4) 0.055(4) -0.018(3) 0.015(3) -0.012(4)
C137 0.136(7) 0.076(5) 0.063(4) -0.016(4) 0.005(4) -0.015(5)
C138 0.142(8) 0.082(5) 0.057(4) 0.002(4) 0.007(4) 0.007(5)
C139 0.110(6) 0.056(4) 0.069(4) -0.003(3) 0.020(4) -0.008(4)
C140 0.071(4) 0.053(3) 0.054(3) -0.015(3) 0.020(3) -0.012(3)
C141 0.055(4) 0.051(4) 0.110(5) -0.029(3) 0.028(4) -0.022(3)
C142 0.077(5) 0.075(5) 0.093(5) -0.034(4) 0.026(4) -0.028(4)
C143 0.087(5) 0.081(5) 0.067(4) -0.023(3) 0.027(3) -0.051(4)
C144 0.066(5) 0.105(6) 0.111(6) -0.031(5) 0.019(4) -0.002(5)
C145 0.161(9) 0.138(8) 0.096(6) -0.015(6) 0.008(6) -0.114(8)
C146 0.090(8) 0.084(7) 0.38(2) 0.011(10) -0.060(11) -0.016(6)
F2221 0.089(9) 0.113(12) 0.074(7) -0.052(8) -0.046(7) 0.074(9)
F2222 0.135(15) 0.053(7) 0.210(19) 0.002(8) 0.067(14) 0.039(8)
F2231 0.068(6) 0.099(8) 0.093(7) -0.044(6) 0.024(5) 0.022(5)
F2232 0.164(14) 0.086(7) 0.084(8) 0.022(6) 0.084(10) 0.060(8)
F2241 0.089(7) 0.059(5) 0.098(8) -0.050(5) -0.001(6) 0.004(5)
F2242 0.123(13) 0.27(2) 0.090(9) -0.134(13) -0.080(9) 0.143(15)
F21 0.067(2) 0.0462(18) 0.0635(19) 0.0110(14) 0.0243(16) -0.0038(15)
F22 0.082(2) 0.065(2) 0.059(2) -0.0144(16) 0.0327(18) -0.0214(18)
F23 0.0442(18) 0.088(3) 0.101(3) 0.017(2) 0.0308(18) 0.0121(18)
F24 0.118(3) 0.060(2) 0.0491(18) 0.0134(16) -0.0135(19) 0.026(2)
F25 0.103(3) 0.145(4) 0.0470(19) -0.036(2) -0.040(2) 0.071(3)
F26 0.080(3) 0.140(4) 0.133(4) 0.066(3) -0.075(3) -0.044(3)
F27 0.097(3) 0.085(3) 0.111(3) 0.048(3) 0.030(3) 0.050(3)

F28 0.449(14) 0.088(4) 0.207(7) 0.007(4) -0.251(9) 0.060(6)
F29 0.171(6) 0.081(3) 0.231(7) 0.099(4) 0.107(5) 0.044(4)
F210 0.100(4) 0.164(5) 0.168(5) -0.115(5) 0.012(4) 0.021(4)
F211 0.078(3) 0.098(3) 0.107(3) 0.009(2) 0.061(2) -0.007(2)
F212 0.117(4) 0.229(7) 0.154(5) 0.133(5) 0.105(4) 0.124(4)
F213 0.0560(19) 0.058(2) 0.065(2) -0.0193(16) 0.0010(15) -0.0129(15)
F214 0.082(2) 0.084(3) 0.070(2) -0.0441(19) 0.0367(19) -0.026(2)
F215 0.149(4) 0.043(2) 0.103(3) -0.030(2) -0.042(3) 0.035(2)
F216 0.074(2) 0.092(3) 0.063(2) 0.0356(19) 0.0107(17) 0.048(2)
F217 0.164(4) 0.080(3) 0.072(2) 0.034(2) -0.077(3) -0.030(3)
F218 0.066(2) 0.103(3) 0.0378(16) 0.0284(17) 0.0128(14) 0.0289(19)
F219 0.053(2) 0.135(4) 0.144(4) -0.087(3) -0.047(2) 0.024(2)
F220 0.0325(17) 0.129(4) 0.085(3) -0.015(2) -0.0005(17) -0.0005(19)
F221 0.068(3) 0.117(4) 0.130(4) 0.015(3) -0.044(3) 0.020(3)
C21 0.031(2) 0.0196(19) 0.031(2) 0.0022(15) -0.0029(16) 0.0004(16)
C22 0.035(2) 0.026(2) 0.034(2) 0.0024(16) 0.0005(17) 0.0011(17)
C23 0.036(2) 0.029(2) 0.051(3) 0.0007(19) 0.008(2) -0.0012(18)
C24 0.029(2) 0.031(2) 0.068(3) 0.000(2) -0.005(2) 0.0000(19)
C25 0.036(2) 0.032(2) 0.047(3) -0.0007(19) -0.0109(19) 0.0019(19)
C26 0.035(2) 0.033(2) 0.030(2) 0.0026(17) -0.0067(17) -0.0013(18)
C27 0.047(3) 0.041(3) 0.065(3) 0.002(2) 0.022(3) -0.002(2)
C28 0.042(3) 0.051(3) 0.060(3) 0.004(3) -0.018(2) 0.006(2)
C29 0.030(2) 0.030(2) 0.0226(18) 0.0002(15) -0.0029(15) -0.0033(16)
C210 0.037(2) 0.031(2) 0.032(2) 0.0041(17) -0.0005(17) -0.0006(18)
C211 0.048(3) 0.036(2) 0.032(2) 0.0080(18) 0.0003(19) -0.007(2)
C212 0.057(3) 0.039(3) 0.029(2) 0.0032(19) 0.005(2) -0.018(2)
C213 0.041(3) 0.040(2) 0.036(2) -0.0067(19) 0.0070(19) -0.012(2)
C214 0.036(2) 0.030(2) 0.028(2) 0.0006(16) -0.0008(17) -0.0035(18)
C215 0.101(5) 0.044(3) 0.051(3) 0.026(3) 0.002(3) 0.003(3)
C216 0.062(4) 0.049(3) 0.073(4) -0.007(3) 0.029(3) -0.009(3)
C217 0.026(2) 0.033(2) 0.0220(18) 0.0024(15) 0.0015(15) -0.0008(16)
C218 0.030(2) 0.033(2) 0.028(2) 0.0013(16) -0.0003(16) -0.0012(17)
C219 0.031(2) 0.033(2) 0.042(2) -0.0025(19) 0.0065(18) -0.0032(18)
C220 0.035(2) 0.031(2) 0.047(3) 0.0064(19) 0.0059(19) 0.0043(18)
C221 0.030(2) 0.040(3) 0.036(2) 0.0129(18) 0.0029(18) 0.0051(18)
C222 0.029(2) 0.036(2) 0.0257(19) 0.0019(16) 0.0020(16) 0.0041(17)
C223 0.044(3) 0.037(3) 0.057(3) -0.015(2) 0.005(2) -0.001(2)
C224 0.050(3) 0.050(3) 0.041(3) 0.017(2) -0.003(2) 0.011(2)
C225 0.033(2) 0.030(2) 0.0253(19) 0.0029(16) -0.0040(16) -0.0017(17)
C226 0.032(2) 0.044(3) 0.033(2) -0.0063(19) -0.0008(17) 0.0025(19)
C227 0.034(2) 0.052(3) 0.042(2) -0.012(2) -0.004(2) 0.000(2)
C228 0.047(3) 0.047(3) 0.039(2) -0.017(2) -0.013(2) 0.002(2)
C229 0.046(3) 0.041(3) 0.041(2) -0.009(2) -0.009(2) 0.009(2)
C230 0.032(2) 0.036(2) 0.033(2) -0.0033(18) -0.0062(17) 0.0053(18)
C231 0.035(3) 0.087(5) 0.070(4) -0.031(3) -0.010(3) 0.008(3)
C232 0.061(4) 0.061(4) 0.059(4) -0.025(3) -0.017(3) 0.023(3)
B2 0.027(2) 0.030(2) 0.0202(19) 0.0016(16) -0.0028(16) -0.0001(18)

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10. MOLECULAR GEOMETRY

_geom_special_details

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Bond distances, angles etc. have been calculated using the rounded fractional coordinates. All esds are estimated from the variances of the (full) variance-covariance matrix. The cell esds are taken into account in the estimation of distances, angles and torsion angles

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loop_
_geom_bond_atom_site_label_1
_geom_bond_atom_site_label_2
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_geom_bond_site_symmetry_1
_geom_bond_site_symmetry_2
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Pd1 N11 2.085(3) . . yes
Pd1 N12 2.143(4) . . yes
Pd1 N13 2.104(5) . . yes
Pd1 C141 2.015(7) . . yes
F2221 F2231 1.34(2) . . yes
F2221 C232 1.224(16) . . yes
F2221 F2222 0.77(2) . . yes
F2222 C232 1.319(19) . . yes
F2222 F2241 1.56(2) . . yes
F2231 C232 1.376(12) . . yes
F2231 F2232 1.32(2) . . yes
F2232 C232 1.277(16) . . yes
F2232 F2242 1.14(3) . . yes
F2241 F2242 1.17(2) . . yes
F2241 C232 1.408(12) . . yes
F2242 C232 1.261(17) . . yes
F21 C27 1.331(6) . . yes
F22 C27 1.337(6) . . yes
F23 C27 1.330(6) . . yes
F24 C28 1.308(7) . . yes
F25 C28 1.306(7) . . yes
F26 C28 1.326(7) . . yes
F27 C215 1.293(8) . . yes
F28 C215 1.239(11) . . yes
F29 C215 1.317(9) . . yes
F210 C216 1.357(9) . . yes
F211 C216 1.300(8) . . yes
F212 C216 1.257(9) . . yes
F213 C223 1.333(6) . . yes
F214 C223 1.345(6) . . yes
F215 C223 1.317(6) . . yes
F216 C224 1.335(7) . . yes
F217 C224 1.299(7) . . yes
F218 C224 1.325(6) . . yes
F219 C231 1.266(9) . . yes
F220 C231 1.309(7) . . yes
F221 C231 1.395(9) . . yes
N11 C11 1.452(6) . . yes
N11 C113 1.279(6) . . yes
N12 C115 1.284(6) . . yes
N12 C117 1.449(6) . . yes
N13 C129 1.453(7) . . yes
N13 C140 1.450(8) . . yes
N13 C141 1.449(8) . . yes
C11 C12 1.377(7) . . no
C11 C16 1.404(7) . . no
C12 C13 1.402(7) . . no
C12 C17 1.519(9) . . no
C13 C14 1.376(8) . . no
C14 C15 1.382(7) . . no
C15 C16 1.389(7) . . no
C16 C110 1.514(7) . . no
C17 C18 1.511(11) . . no
C17 C19 1.555(12) . . no

C110 C111 1.497(8) . . no
C110 C112 1.548(9) . . no
C113 C114 1.493(7) . . no
C13 H13 0.9506 . . no
C113 C115 1.507(7) . . no
C14 H14 0.9497 . . no
C115 C116 1.493(7) . . no
C15 H15 0.9504 . . no
C17 H17 1.0008 . . no
C117 C118 1.392(7) . . no
C117 C122 1.396(6) . . no
C18 H18 0.9801 . . no
C18 H18" 0.9806 . . no
C118 C123 1.523(6) . . no
C18 H18' 0.9809 . . no
C118 C119 1.400(7) . . no
C19 H19' 0.9801 . . no
C19 H19 0.9797 . . no
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C19 H19" 0.9795 . . no
C120 C121 1.369(7) . . no
C121 C122 1.393(7) . . no
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C123 C125 1.516(7) . . no
C123 C124 1.509(8) . . no
C126 C127 1.543(11) . . no
C126 C128 1.489(10) . . no
C129 C130 1.364(9) . . no
C129 C134 1.395(8) . . no
C130 C131 1.388(9) . . no
C131 C132 1.401(9) . . no
C132 C133 1.348(9) . . no
C133 C134 1.400(8) . . no
C134 C135 1.449(9) . . no
C135 C140 1.412(9) . . no
C135 C136 1.382(9) . . no
C136 C137 1.387(10) . . no
C137 C138 1.393(11) . . no
C138 C139 1.405(11) . . no
C139 C140 1.365(9) . . no
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C142 C143 1.532(10) . . no
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C144 C146 1.404(19) . . no
C144 C145 1.463(14) . . no
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C111 H111 0.9798 . . no
C111 H111" 0.9802 . . no
C112 H112" 0.9804 . . no
C112 H112 0.9795 . . no
C112 H112' 0.9801 . . no
C114 H114" 0.9807 . . no
C114 H114 0.9798 . . no
C114 H114' 0.9799 . . no
C116 H116" 0.9801 . . no
C116 H116 0.9804 . . no
C116 H116' 0.9794 . . no
C119 H119 0.9507 . . no
C120 H120 0.9500 . . no
C121 H121 0.9497 . . no

C21 C26 1.395(6) . . no
C21 C22 1.397(6) . . no
C21 B2 1.647(6) . . yes
C22 C23 1.399(6) . . no
C123 H123 1.0008 . . no
C23 C24 1.382(7) . . no
C23 C27 1.504(7) . . no
C24 C25 1.383(7) . . no
C124 H124 0.9796 . . no
C124 H124' 0.9801 . . no
C124 H124" 0.9801 . . no
C25 C26 1.403(6) . . no
C125 H125' 0.9797 . . no
C125 H125" 0.9797 . . no
C125 H125 0.9805 . . no
C25 C28 1.494(8) . . no
C126 H126 0.9996 . . no
C127 H127 0.9808 . . no
C127 H127" 0.9799 . . no
C127 H127' 0.9799 . . no
C128 H128' 0.9799 . . no
C128 H128 0.9807 . . no
C128 H128" 0.9795 . . no
C29 B2 1.648(6) . . yes
C29 C214 1.396(6) . . no
C29 C210 1.400(6) . . no
C130 H130 0.9497 . . no
C131 H131 0.9499 . . no
C132 H132 0.9499 . . no
C133 H133 0.9498 . . no
C136 H136 0.9503 . . no
C137 H137 0.9488 . . no
C138 H138 0.9495 . . no
C139 H139 0.9495 . . no
C142 H142' 0.9902 . . no
C142 H142 0.9899 . . no
C143 H143' 0.9897 . . no
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C144 H144 1.0011 . . no
C145 H145' 0.9798 . . no
C145 H145" 0.9811 . . no
C145 H145 0.9789 . . no
C146 H146 0.9804 . . no
C146 H146" 0.9786 . . no
C146 H146' 0.9801 . . no
C22 H22 0.9498 . . no
C24 H24 0.9493 . . no
C26 H26 0.9501 . . no
C210 C211 1.393(6) . . no
C211 C212 1.382(7) . . no
C211 C215 1.497(8) . . no
C212 C213 1.375(7) . . no
C213 C214 1.401(6) . . no
C213 C216 1.482(8) . . no
C217 C218 1.404(6) . . no
C217 C222 1.405(6) . . no
C217 B2 1.649(7) . . yes
C218 C219 1.385(7) . . no
C219 C223 1.489(7) . . no
C219 C220 1.382(6) . . no
C220 C221 1.385(6) . . no

C221 C222 1.384(7) . . no
C221 C224 1.505(6) . . no
C225 C226 1.394(5) . . no
C225 C230 1.398(6) . . no
C225 B2 1.640(6) . . yes
C226 C227 1.386(7) . . no
C227 C231 1.489(7) . . no
C227 C228 1.390(7) . . no
C228 C229 1.373(7) . . no
C229 C230 1.395(6) . . no
C229 C232 1.499(8) . . no
C210 H210 0.9498 . . no
C212 H212 0.9499 . . no
C214 H214 0.9504 . . no
C218 H218 0.9502 . . no
C220 H220 0.9498 . . no
C222 H222 0.9499 . . no
C226 H226 0.9507 . . no
C228 H228 0.9493 . . no
C230 H230 0.9497 . . no

loop_

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N11 Pd1 N13 159.09(17) . . . yes
N11 Pd1 C141 118.2(2) . . . yes
N12 Pd1 N13 125.58(16) . . . yes
N12 Pd1 C141 165.2(2) . . . yes
N13 Pd1 C141 41.1(2) . . . yes
F2222 F2221 C232 79.4(19) . . . yes
F2231 F2221 C232 64.7(9) . . . yes
F2222 F2221 F2231 142(2) . . . yes
F2241 F2222 C232 57.9(9) . . . yes
F2221 F2222 F2241 117(2) . . . yes
F2221 F2222 C232 65.8(16) . . . yes
F2221 F2231 F2232 104.1(11) . . . yes
F2232 F2231 C232 56.5(8) . . . yes
F2221 F2231 C232 53.5(8) . . . yes
F2231 F2232 F2242 117.6(15) . . . yes
F2242 F2232 C232 62.5(11) . . . yes
F2231 F2232 C232 63.9(9) . . . yes
F2222 F2241 C232 52.5(7) . . . yes
F2242 F2241 C232 57.7(11) . . . yes
F2222 F2241 F2242 101.8(13) . . . yes
F2232 F2242 F2241 133.8(17) . . . yes
F2232 F2242 C232 63.9(13) . . . yes
F2241 F2242 C232 70.7(10) . . . yes
Pd1 N11 C11 120.7(3) . . . yes
C11 N11 C113 120.8(4) . . . yes
Pd1 N11 C113 118.4(3) . . . yes
C115 N12 C117 123.2(4) . . . yes
Pd1 N12 C115 116.4(3) . . . yes
Pd1 N12 C117 120.4(3) . . . yes
Pd1 N13 C129 116.4(4) . . . yes

Pd1 N13 C140 117.6(4) . . . yes
Pd1 N13 C141 66.1(3) . . . yes
C129 N13 C140 106.6(5) . . . yes
C129 N13 C141 127.0(5) . . . yes
C140 N13 C141 118.3(5) . . . yes
N11 C11 C16 119.7(4) . . . yes
N11 C11 C12 116.5(4) . . . yes
C12 C11 C16 123.8(5) . . . no
C11 C12 C13 117.1(5) . . . no
C11 C12 C17 122.1(5) . . . no
C13 C12 C17 120.8(5) . . . no
C12 C13 C14 121.0(5) . . . no
C13 C14 C15 120.2(5) . . . no
C14 C15 C16 121.3(5) . . . no
C11 C16 C15 116.6(4) . . . no
C15 C16 C110 122.2(4) . . . no
C11 C16 C110 121.2(4) . . . no
C12 C17 C18 114.2(7) . . . no
C18 C17 C19 111.9(7) . . . no
C12 C17 C19 109.8(6) . . . no
C16 C110 C111 115.2(5) . . . no
C16 C110 C112 110.9(4) . . . no
C111 C110 C112 109.2(5) . . . no
N11 C113 C114 125.2(4) . . . yes
N11 C113 C115 114.9(4) . . . yes
C114 C113 C115 119.8(4) . . . no
C12 C13 H13 119.54 . . . no
C14 C13 H13 119.47 . . . no
C13 C14 H14 119.90 . . . no
C15 C14 H14 119.89 . . . no
C16 C15 H15 119.40 . . . no
N12 C115 C113 114.7(4) . . . yes
N12 C115 C116 126.2(4) . . . yes
C14 C15 H15 119.25 . . . no
C113 C115 C116 119.1(4) . . . no
C118 C117 C122 122.9(4) . . . no
C12 C17 H17 106.80 . . . no
N12 C117 C122 118.8(4) . . . yes
N12 C117 C118 117.7(4) . . . yes
C18 C17 H17 106.86 . . . no
C19 C17 H17 106.83 . . . no
C17 C18 H18 109.56 . . . no
H18' C18 H18" 109.35 . . . no
H18 C18 H18" 109.42 . . . no
C117 C118 C119 117.3(4) . . . no
C117 C118 C123 121.3(4) . . . no
C119 C118 C123 121.3(4) . . . no
C17 C18 H18' 109.55 . . . no
C17 C18 H18" 109.56 . . . no
H18 C18 H18' 109.38 . . . no
C17 C19 H19" 109.42 . . . no
C17 C19 H19' 109.42 . . . no
H19 C19 H19' 109.48 . . . no
H19 C19 H19" 109.54 . . . no
C118 C119 C120 120.8(4) . . . no
H19' C19 H19" 109.50 . . . no
C17 C19 H19 109.46 . . . no
C119 C120 C121 120.5(4) . . . no
C120 C121 C122 121.4(4) . . . no
C121 C122 C126 120.7(4) . . . no
C117 C122 C121 117.1(4) . . . no

C117 C122 C126 122.2(4) . . . no
C118 C123 C125 113.9(4) . . . no
C124 C123 C125 109.5(5) . . . no
C118 C123 C124 111.2(4) . . . no
C122 C126 C127 112.6(5) . . . no
C127 C126 C128 110.8(6) . . . no
C122 C126 C128 109.8(5) . . . no
N13 C129 C134 109.2(5) . . . yes
N13 C129 C130 129.7(5) . . . yes
C130 C129 C134 121.1(5) . . . no
C129 C130 C131 118.7(6) . . . no
C130 C131 C132 120.6(6) . . . no
C131 C132 C133 120.4(6) . . . no
C132 C133 C134 119.6(6) . . . no
C129 C134 C133 119.6(5) . . . no
C129 C134 C135 107.6(5) . . . no
C133 C134 C135 132.8(5) . . . no
C134 C135 C140 108.8(5) . . . no
C134 C135 C136 132.3(6) . . . no
C136 C135 C140 118.8(6) . . . no
C135 C136 C137 119.0(6) . . . no
C136 C137 C138 121.3(7) . . . no
C137 C138 C139 120.4(7) . . . no
C138 C139 C140 117.3(6) . . . no
C135 C140 C139 123.1(6) . . . no
N13 C140 C135 107.8(5) . . . yes
N13 C140 C139 129.2(6) . . . yes
Pd1 C141 C142 130.7(5) . . . yes
Pd1 C141 N13 72.8(3) . . . yes
N13 C141 C142 122.4(6) . . . yes
C141 C142 C143 112.3(6) . . . no
C142 C143 C144 115.4(7) . . . no
C143 C144 C146 113.3(9) . . . no
C145 C144 C146 102.7(9) . . . no
C143 C144 C145 116.6(8) . . . no
C16 C110 H110 107.06 . . . no
C111 C110 H110 107.05 . . . no
C112 C110 H110 107.04 . . . no
H111' C111 H111" 109.47 . . . no
H111' C111 H111 109.50 . . . no
H111" C111 H111 109.47 . . . no
C110 C111 H111 109.49 . . . no
C110 C111 H111' 109.47 . . . no
C110 C111 H111" 109.44 . . . no
C110 C112 H112' 109.46 . . . no
H112' C112 H112" 109.45 . . . no
H112' C112 H112 109.50 . . . no
H112" C112 H112 109.48 . . . no
C110 C112 H112" 109.44 . . . no
C110 C112 H112 109.49 . . . no
C113 C114 H114 109.51 . . . no
C113 C114 H114' 109.52 . . . no
C113 C114 H114" 109.44 . . . no
H114" C114 H114 109.43 . . . no
H114' C114 H114" 109.43 . . . no
H114' C114 H114 109.50 . . . no
C115 C116 H116' 109.49 . . . no
H116' C116 H116" 109.51 . . . no
C115 C116 H116" 109.47 . . . no
C115 C116 H116 109.45 . . . no
H116" C116 H116 109.43 . . . no

H116' C116 H116 109.48 . . . no
C118 C119 H119 119.64 . . . no
C120 C119 H119 119.58 . . . no
C121 C120 H120 119.76 . . . no
C119 C120 H120 119.78 . . . no
C120 C121 H121 119.34 . . . no
C122 C121 H121 119.23 . . . no
C26 C21 B2 124.4(3) . . . yes
C22 C21 C26 115.8(4) . . . no
C22 C21 B2 119.8(3) . . . yes
C21 C22 C23 121.8(4) . . . no
C118 C123 H123 107.29 . . . no
C124 C123 H123 107.28 . . . no
C125 C123 H123 107.31 . . . no
C24 C23 C27 119.7(5) . . . no
C22 C23 C24 121.7(4) . . . no
C22 C23 C27 118.6(4) . . . no
C123 C124 H124" 109.42 . . . no
H124' C124 H124 109.50 . . . no
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H124' C124 H124" 109.45 . . . no
C123 C124 H124' 109.46 . . . no
C23 C24 C25 117.4(5) . . . no
H124" C124 H124 109.50 . . . no
C24 C25 C28 119.5(5) . . . no
C26 C25 C28 119.3(4) . . . no
C24 C25 C26 121.0(4) . . . no
H125' C125 H125 109.47 . . . no
H125" C125 H125 109.46 . . . no
H125' C125 H125" 109.52 . . . no
C123 C125 H125' 109.50 . . . no
C123 C125 H125" 109.47 . . . no
C123 C125 H125 109.41 . . . no
C21 C26 C25 122.3(4) . . . no
C127 C126 H126 107.89 . . . no
C128 C126 H126 107.86 . . . no
C122 C126 H126 107.78 . . . no
F21 C27 F22 107.4(4) . . . yes
F21 C27 F23 106.4(4) . . . yes
C126 C127 H127' 109.52 . . . no
C126 C127 H127" 109.54 . . . no
C126 C127 H127 109.43 . . . no
H127' C127 H127" 109.50 . . . no
H127' C127 H127 109.41 . . . no
H127" C127 H127 109.42 . . . no
F21 C27 C23 112.2(4) . . . yes
F22 C27 F23 106.5(4) . . . yes
F22 C27 C23 111.6(4) . . . yes
F23 C27 C23 112.4(5) . . . yes
H128' C128 H128 109.41 . . . no
H128" C128 H128 109.45 . . . no
F24 C28 C25 112.1(5) . . . yes
F25 C28 F26 106.6(5) . . . yes
F25 C28 C25 113.6(5) . . . yes
F26 C28 C25 112.1(5) . . . yes
C126 C128 H128 109.45 . . . no
H128' C128 H128" 109.52 . . . no
F24 C28 F25 107.9(5) . . . yes
F24 C28 F26 104.0(5) . . . yes
C126 C128 H128' 109.46 . . . no
C126 C128 H128" 109.54 . . . no

C210 C29 C214 115.7(4) . . . no
C210 C29 B2 119.6(4) . . . yes
C214 C29 B2 124.6(4) . . . yes
C129 C130 H130 120.68 . . . no
C131 C130 H130 120.65 . . . no
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C132 C131 H131 119.71 . . . no
C133 C132 H132 119.77 . . . no
C131 C132 H132 119.80 . . . no
C132 C133 H133 120.21 . . . no
C134 C133 H133 120.16 . . . no
C135 C136 H136 120.51 . . . no
C137 C136 H136 120.48 . . . no
C136 C137 H137 119.34 . . . no
C138 C137 H137 119.35 . . . no
C139 C138 H138 119.71 . . . no
C137 C138 H138 119.86 . . . no
C138 C139 H139 121.37 . . . no
C140 C139 H139 121.34 . . . no
H142' C142 H142 107.87 . . . no
C141 C142 H142 109.20 . . . no
C143 C142 H142' 109.09 . . . no
C141 C142 H142' 109.19 . . . no
C143 C142 H142 109.11 . . . no
C144 C143 H143 108.47 . . . no
H143' C143 H143 107.48 . . . no
C144 C143 H143' 108.40 . . . no
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C142 C143 H143 108.39 . . . no
C146 C144 H144 108.02 . . . no
C143 C144 H144 107.90 . . . no
C145 C144 H144 107.89 . . . no
H145' C145 H145" 109.39 . . . no
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H145' C145 H145 109.58 . . . no
H145" C145 H145 109.45 . . . no
H146" C146 H146 109.56 . . . no
C144 C146 H146' 109.43 . . . no
C144 C146 H146" 109.46 . . . no
C144 C146 H146 109.37 . . . no
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F217 C224 F218 107.9(4) . . . yes
F218 C224 C221 112.0(4) . . . yes
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C225 C230 C229 122.2(4) . . . no
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F220 C231 C227 112.9(5) . . . yes
F221 C231 C227 111.4(5) . . . yes
F2221 C232 F2241 100.5(10) . . . yes
F2221 C232 F2242 124.5(13) . . . yes
F2221 C232 F2232 114.0(11) . . . yes
F2222 C232 F2242 111.3(15) . . . yes
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 F2241 C232 F2242 51.5(12) . . . yes
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 F2231 C232 F2241 139.5(9) . . . yes
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 C213 C214 H214 119.11 . . . no
 C29 C214 H214 119.06 . . . no
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 C219 C218 H218 118.81 . . . no
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 C221 C222 H222 118.85 . . . no
 C217 C222 H222 118.89 . . . no
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 C227 C226 H226 118.68 . . . no
 C227 C228 H228 120.82 . . . no
 C229 C228 H228 120.81 . . . no
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 C225 C230 H230 118.91 . . . no
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 C21 B2 C225 112.1(3) . . . yes
 C29 B2 C225 105.4(3) . . . yes
 C217 B2 C225 110.2(3) . . . yes
 C29 B2 C217 110.9(3) . . . yes
 C21 B2 C29 111.5(3) . . . yes

loop_

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 _geom_torsion_atom_site_label_3
 _geom_torsion_atom_site_label_4
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 _geom_torsion_site_symmetry_1
 _geom_torsion_site_symmetry_2
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 N12 Pd1 N11 C113 4.9(3) no
 N13 Pd1 N11 C11 5.4(7) no
 N13 Pd1 N11 C113 -174.2(5) no
 C141 Pd1 N11 C11 -2.1(4) no
 C141 Pd1 N11 C113 178.4(4) no
 N11 Pd1 N12 C115 -3.3(3) no
 N11 Pd1 N12 C117 173.0(3) no
 N13 Pd1 N12 C115 176.3(3) no
 N13 Pd1 N12 C117 -7.4(4) no
 N11 Pd1 N13 C129 111.0(5) no
 N11 Pd1 N13 C140 -120.7(5) no
 N11 Pd1 N13 C141 -10.0(7) no

N12 Pd1 N13 C129 -67.9(4) no
N12 Pd1 N13 C140 60.4(5) no
N12 Pd1 N13 C141 171.1(3) no
C141 Pd1 N13 C129 121.0(6) no
C141 Pd1 N13 C140 -110.7(6) no
N11 Pd1 C141 N13 175.9(3) no
N11 Pd1 C141 C142 57.8(7) no
N13 Pd1 C141 C142 -118.2(8) no
F2222 F2221 C232 F2241 -27.1(19) no
F2231 F2221 F2222 F2241 9(5) no
F2231 F2221 F2222 C232 -18(3) no
C232 F2221 F2222 F2241 27.2(17) no
F2222 F2221 F2231 F2232 -8(4) no
F2222 F2221 F2231 C232 19(3) no
C232 F2221 F2231 F2232 -26.8(11) no
F2231 F2221 C232 F2232 29.7(12) no
F2231 F2221 C232 F2241 141.0(10) no
F2222 F2221 C232 F2242 -77(2) no
F2231 F2221 C232 F2242 90.8(16) no
F2222 F2221 C232 C229 89.8(19) no
F2231 F2221 C232 C229 -102.0(9) no
F2222 F2221 C232 F2232 -138.5(18) no
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F2222 F2221 C232 F2231 -168(2) no
F2241 F2222 C232 F2232 -89.9(16) no
F2221 F2222 C232 F2241 151(2) no
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C232 F2222 F2241 F2242 32.0(14) no
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F2231 F2232 C232 F2241 -139.3(9) no

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F2222 F2241 F2242 F2232 -18(3) no
F2222 F2241 F2242 C232 -29.8(12) no
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F2222 F2241 C232 F2242 142.2(16) no
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Pd1 N12 C117 C118 78.3(4) no
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C117 N12 C115 C116 3.8(8) no
Pd1 N13 C129 C130 -46.1(7) no
Pd1 N13 C129 C134 132.2(4) no
C140 N13 C129 C130 -179.6(6) no
C140 N13 C141 Pd1 109.7(5) no
C141 N13 C129 C130 32.9(9) no
C141 N13 C129 C134 -148.8(6) no
Pd1 N13 C140 C135 -131.9(4) no
Pd1 N13 C140 C139 48.5(9) no
C129 N13 C140 C135 0.8(6) no
C129 N13 C140 C139 -178.7(7) no
C141 N13 C140 C135 151.8(5) no
C141 N13 C140 C139 -27.8(10) no
Pd1 N13 C141 C142 127.7(7) no
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C16 C11 C12 C17 179.5(5) no
N11 C11 C12 C13 -178.1(4) no
C12 C11 C16 C110 -179.0(5) no
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C112 C110 C111 H111' -58.05 no
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B2 C21 C22 C23 -178.4(4) no

C26 C21 B2 C29 -12.3(5) no
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H126 C126 C128 H128 63.08 no
H126 C126 C128 H128" -176.92 no
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C214 C29 B2 C217 17.2(6) no
C210 C29 B2 C217 -166.2(4) no
C210 C29 B2 C225 74.6(5) no
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B2 C29 C210 C211 179.8(4) no
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C214 C29 C210 C211 -3.3(6) no
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H133 C133 C134 C129 -179.35 no
H133 C133 C134 C135 -1.03 no
C134 C135 C136 H136 -1.71 no
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H139 C139 C140 C135 -177.04 no
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C143 C144 C146 H146 -164.62 no
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C29 C210 C211 C212 2.7(7) no
C210 C211 C215 F27 -25.3(8) no
C212 C211 C215 F28 -77.0(9) no
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C215 C211 C212 C213 177.9(5) no
C210 C211 C215 F29 -142.0(5) no
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