Crystal structure of (2*R*,3*R*,5*R*,6*R*)-5,6-bis((diphenylphosphanyl)methyl)-2,3-diethoxy-2,3-dimethyl[1,4]dioxane rhodium(I)-(Z,Z)-cycloocta-1,5-diene tetrafluoroborate, C₈₈H₁₀₈B₂F₈O₈P₄Rh₂

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Table 2. Final atomic coordinates and displacement parameters (in Å²)

Atom	Site	x	y	z	U _{iso}
H(1A)	4c	-0.2401(5)	-0.563(1)	-0.2571(7)	0.058
H(1B)	4c	-0.2560(5)	-0.661(1)	-0.2430(7)	0.058
H(2)	4c	-0.2500(5)	-0.743(1)	-0.3216(7)	0.055
H(5)	4c	-0.1856(5)	-0.573(1)	-0.2733(7)	0.048
H(6A)	4c	-0.2613(5)	-0.640(1)	-0.4054(6)	0.053
H(6B)	4c	-0.2186(5)	-0.578(1)	-0.3890(6)	0.053
C(7)	4c	-0.1270(6)	-0.850(2)	-0.1517(8)	0.078(5)
H(7A)	4c	-0.1042(6)	-0.895(2)	-0.1469(8)	0.117
H(7B)	4c	-0.1448(6)	-0.888(2)	-0.1435(8)	0.117
H(7C)	4c	-0.1101(6)	-0.795(2)	-0.1201(8)	0.117
C(8)	4c	-0.1067(5)	-0.813(1)	-0.2491(8)	0.064(4)
H(8A)	4c	-0.0826(5)	-0.849(1)	-0.2081(8)	0.096
H(8B)	4c	-0.0913(5)	-0.769(1)	-0.2590(8)	0.096
H(8C)	4c	-0.1270(5)	-0.861(1)	-0.2847(8)	0.096
C(9)	4c	-0.2142(7)	-0.957(2)	-0.2676(9)	0.090(6)
H(9A)	4c	-0.2380(7)	-0.921(2)	-0.2694(9)	0.108
H(9B)	4c	-0.1931(7)	-0.995(2)	-0.2260(9)	0.108
C(10)	4c	-0.2384(8)	-1.028(2)	-0.325(1)	0.101(6)
H(10A)	4c	-0.2570(8)	-1.077(2)	-0.324(1)	0.151
H(10B)	4c	-0.2145(8)	-1.063(2)	-0.323(1)	0.151
H(10C)	4c	-0.2592(8)	-0.990(2)	-0.366(1)	0.151
C(11)	4c	-0.0811(7)	-0.601(2)	-0.195(1)	0.083(5)
H(11A)	4c	-0.1008(7)	-0.576(2)	-0.241(1)	0.100
H(11B)	4c	-0.0530(7)	-0.634(2)	-0.183(1)	0.100
C(12)	4c	-0.0661(7)	-0.514(2)	-0.149(1)	0.094(6)
H(12A)	4c	-0.0478(7)	-0.466(2)	-0.152(1)	0.142
H(12B)	4c	-0.0465(7)	-0.539(2)	-0.105(1)	0.142
H(12C)	4c	-0.0941(7)	-0.481(2)	-0.162(1)	0.142
C(20)	4c	-0.3836(6)	-0.381(2)	-0.5189(8)	0.073(5)
H(20)	4c	-0.3640(6)	-0.418(2)	-0.5227(8)	0.087
C(21)	4c	-0.3606(6)	-0.310(1)	-0.4691(8)	0.063(4)
H(21)	4c	-0.3281(6)	-0.298(1)	-0.4458(8)	0.076
C(22)	4c	-0.3827(7)	-0.251(2)	-0.449(1)	0.094(6)
H(22A)	4c	-0.3988(7)	-0.193(2)	-0.479(1)	0.113
H(22B)	4c	-0.3574(7)	-0.226(2)	-0.404(1)	0.113
C(23)	4c	-0.4178(7)	-0.307(2)	-0.450(1)	0.089(6)
H(23A)	4c	-0.4490(7)	-0.303(2)	-0.495(1)	0.106
H(23B)	4c	-0.4208(7)	-0.271(2)	-0.421(1)	0.106
C(24)	4c	-0.4059(6)	-0.420(1)	-0.4288(9)	0.069(4)
H(24)	4c	-0.3870(6)	-0.434(1)	-0.3836(9)	0.083
C(25)	4c	-0.4206(5)	-0.499(1)	-0.4698(8)	0.070(5)
H(25)	4c	-0.4125(5)	-0.564(1)	-0.4511(8)	0.084
C(26)	4c	-0.4497(7)	-0.491(2)	-0.545(1)	0.105(6)
H(26A)	4c	-0.4469(7)	-0.556(2)	-0.560(1)	0.126
H(26B)	4c	-0.4834(7)	-0.482(2)	-0.567(1)	0.126
C(27)	4c	-0.4365(7)	-0.408(2)	-0.569(1)	0.096(6)
H(27A)	4c	-0.4553(7)	-0.348(2)	-0.578(1)	0.115
H(27B)	4c	-0.4449(7)	-0.430(2)	-0.610(1)	0.115

Source of material: see ref. 1.

Rh-chelates of 2,3-bis-(diphenylphosphanyl)methyl-[1,4]dioxanes are useful for asymmetric hydrogenation (see ref. 1).

C₈₈H₁₀₈B₂F₈O₈P₄Rh₂, monoclinic, C121 (No. 5), *a* = 37.062(3) Å, *b* = 13.100(2) Å, *c* = 26.738(2) Å, β = 131.523(6)°, *V* = 9719.5 Å³, *Z* = 4, *R*(*F*) = 0.058, *R*_w(*F*²) = 0.159.

Table 1. Parameters used for the X-ray data collection

Crystal:	red prism, size 0.15 x 0.2 x 0.3 mm
Wavelength:	Mo K _α radiation (0.71069 Å)
μ:	4.69 cm ⁻¹
Diffractometer:	CAD4-MACH3
Scan mode:	ω/2θ
T _{measurement} :	293 K
2θ _{max} :	43.28°
N(<i>hkl</i>) _{unique} :	5988
Criterion for <i>I</i> _o :	<i>I</i> _o > 2 σ(<i>I</i> _o)
N(<i>param</i>) _{refined} :	561
Programs:	SHELXS-86, SHELXL-93

Table 2. (Continued)

Atom	Site	x	y	z	U _{iso}
C(30)	4c	-0.2270(5)	-0.385(1)	-0.3234(7)	0.053(4)
C(31)	4c	-0.1809(6)	-0.368(1)	-0.3005(9)	0.072(5)
H(31)	4c	-0.1714(6)	-0.401(1)	-0.3210(9)	0.086
C(32)	4c	-0.1489(7)	-0.302(2)	-0.247(1)	0.084(5)
H(32)	4c	-0.1184(7)	-0.291(2)	-0.232(1)	0.101
C(33)	4c	-0.1627(8)	-0.253(2)	-0.216(1)	0.105(7)
H(33)	4c	-0.1413(8)	-0.209(2)	-0.180(1)	0.126
C(34)	4c	-0.2074(7)	-0.270(2)	-0.237(1)	0.086(6)
H(34)	4c	-0.2159(7)	-0.237(2)	-0.215(1)	0.104
C(35)	4c	-0.2406(6)	-0.335(1)	-0.2905(8)	0.065(4)
H(35)	4c	-0.2708(6)	-0.346(1)	-0.3044(8)	0.077
C(40)	4c	-0.2724(5)	-0.420(1)	-0.4610(6)	0.045(3)
C(41)	4c	-0.2932(5)	-0.482(2)	-0.5147(7)	0.063(4)
H(41)	4c	-0.3049(5)	-0.546(2)	-0.5163(7)	0.076
C(42)	4c	-0.2967(6)	-0.448(1)	-0.5685(9)	0.077(5)
H(42)	4c	-0.3126(6)	-0.489(1)	-0.6064(9)	0.092
C(43)	4c	-0.2779(7)	-0.361(2)	-0.566(1)	0.087(6)
H(43)	4c	-0.2782(7)	-0.343(2)	-0.600(1)	0.105
C(44)	4c	-0.2575(7)	-0.296(2)	-0.511(1)	0.085(5)
H(44)	4c	-0.2463(7)	-0.232(2)	-0.511(1)	0.103
C(45)	4c	-0.2537(5)	-0.326(1)	-0.4571(8)	0.061(4)
H(45)	4c	-0.2392(5)	-0.284(1)	-0.4201(8)	0.073
C(50)	4c	-0.3414(5)	-0.579(1)	-0.3015(7)	0.048(3)
C(51)	4c	-0.3818(5)	-0.621(1)	-0.3198(8)	0.060(4)
H(51)	4c	-0.4010(5)	-0.661(1)	-0.3579(8)	0.071
C(52)	4c	-0.3955(6)	-0.604(1)	-0.2832(8)	0.068(4)
H(52)	4c	-0.4246(6)	-0.630(1)	-0.2984(8)	0.082
C(53)	4c	-0.3673(7)	-0.551(2)	-0.2268(9)	0.083(5)
H(53)	4c	-0.3759(7)	-0.546(2)	-0.2011(9)	0.100
C(54)	4c	-0.3257(6)	-0.505(1)	-0.2049(9)	0.080(5)
H(54)	4c	-0.3076(6)	-0.464(1)	-0.1669(9)	0.096
C(55)	4c	-0.3108(6)	-0.521(1)	-0.2419(8)	0.073(5)
H(55)	4c	-0.2821(6)	-0.493(1)	-0.2274(8)	0.088
C(60)	4c	-0.3414(5)	-0.721(1)	-0.3856(7)	0.050(3)
C(61)	4c	-0.3371(5)	-0.807(1)	-0.3513(7)	0.054(4)
H(61)	4c	-0.3280(5)	-0.800(1)	-0.3096(7)	0.065
C(62)	4c	-0.3465(5)	-0.906(1)	-0.3794(8)	0.065(4)
H(62)	4c	-0.3444(5)	-0.963(1)	-0.3571(8)	0.078
C(63)	4c	-0.3587(7)	-0.914(2)	-0.4390(9)	0.085(5)
H(63)	4c	-0.3648(7)	-0.979(2)	-0.4573(9)	0.102
C(64)	4c	-0.3627(6)	-0.832(2)	-0.4746(9)	0.080(5)
H(64)	4c	-0.3699(6)	-0.841(2)	-0.5149(9)	0.096
C(65)	4c	-0.3554(5)	-0.732(1)	-0.4480(8)	0.059(4)
H(65)	4c	-0.3602(5)	-0.675(1)	-0.4723(8)	0.071
H(10D)	4c	0.0243(4)	-0.451(1)	-0.1821(6)	0.054
H(10E)	4c	-0.0072(4)	-0.543(1)	-0.1935(6)	0.054
H(102)	4c	0.0692(5)	-0.641(1)	-0.1290(6)	0.055
H(105)	4c	0.1052(4)	-0.438(1)	-0.0814(6)	0.057
H(10F)	4c	0.1294(5)	-0.584(1)	-0.1311(7)	0.065
H(10G)	4c	0.1671(5)	-0.502(1)	-0.0811(7)	0.065
C(107)	4c	0.0653(7)	-0.596(2)	0.0163(9)	0.087(5)
H(10H)	4c	0.0599(7)	-0.524(2)	0.0168(9)	0.131
H(10I)	4c	0.0871(7)	-0.621(2)	0.0612(9)	0.131
H(10J)	4c	0.0353(7)	-0.632(2)	-0.0092(9)	0.131
C(108)	4c	0.1760(7)	-0.605(2)	0.086(1)	0.099(6)
H(10K)	4c	0.1796(7)	-0.674(2)	0.077(1)	0.149
H(10L)	4c	0.1700(7)	-0.607(2)	0.116(1)	0.149
H(10M)	4c	0.2049(7)	-0.567(2)	0.106(1)	0.149
C(109)	4c	0.0549(9)	-0.778(2)	-0.055(1)	0.125(8)
H(10N)	4c	0.0313(9)	-0.759(2)	-0.101(1)	0.150
H(10O)	4c	0.0399(9)	-0.777(2)	-0.035(1)	0.150
C(110)	4c	0.078(1)	-0.886(3)	-0.045(2)	0.20(2)
H(11C)	4c	0.053(1)	-0.937(3)	-0.067(2)	0.300
H(11D)	4c	0.102(1)	-0.902(3)	0.002(2)	0.300
H(11E)	4c	0.093(1)	-0.885(3)	-0.064(2)	0.300
C(111)	4c	0.165(1)	-0.385(2)	0.066(2)	0.130(9)
H(11F)	4c	0.182(1)	-0.389(2)	0.051(2)	0.155
H(11G)	4c	0.186(1)	-0.404(2)	0.113(2)	0.155
C(112)	4c	0.148(1)	-0.281(3)	0.058(2)	0.17(1)
H(11H)	4c	0.175(1)	-0.236(3)	0.084(2)	0.254
H(11I)	4c	0.131(1)	-0.277(3)	0.074(2)	0.254
H(11J)	4c	0.127(1)	-0.262(3)	0.012(2)	0.254
C(120)	4c	0.0738(5)	-0.380(1)	-0.3311(7)	0.049(3)

Table 2. (Continued)

Atom	Site	x	y	z	U _{iso}
H(120)	4c	0.0916(5)	-0.345(1)	-0.2907(7)	0.058
C(121)	4c	0.0881(4)	-0.474(1)	-0.3288(6)	0.050(3)
H(121)	4c	0.1139(4)	-0.500(1)	-0.2870(6)	0.06
C(122)	4c	0.0667(6)	-0.541(1)	-0.3871(8)	0.069(4)
H(12D)	4c	0.0919(6)	-0.584(1)	-0.3779(8)	0.083
H(12E)	4c	0.0543(6)	-0.499(1)	-0.4254(8)	0.083
C(123)	4c	0.0260(6)	-0.610(2)	-0.405(1)	0.072(5)
H(12F)	4c	0.0050(6)	-0.627(2)	-0.452(1)	0.087
H(12G)	4c	0.0400(6)	-0.673(2)	-0.380(1)	0.087
C(124)	4c	-0.0041(5)	-0.563(1)	-0.3917(7)	0.055(4)
H(124)	4c	-0.0131(5)	-0.606(1)	-0.3741(7)	0.066
C(125)	4c	-0.0197(4)	-0.466(1)	-0.4022(6)	0.054(3)
H(125)	4c	-0.0350(4)	-0.446(1)	-0.3868(6)	0.065
C(126)	4c	-0.0139(6)	-0.386(1)	-0.4370(9)	0.075(5)
H(12H)	4c	-0.0146(6)	-0.420(1)	-0.4699(9)	0.090
H(12I)	4c	-0.0415(6)	-0.341(1)	-0.4610(9)	0.090
C(127)	4c	0.0307(7)	-0.322(2)	-0.394(1)	0.094(6)
H(12J)	4c	0.0242(7)	-0.262(2)	-0.380(1)	0.112
H(12K)	4c	0.0391(7)	-0.301(2)	-0.419(1)	0.112
C(130)	4c	0.1674(5)	-0.408(1)	-0.1687(7)	0.050(3)
C(131)	4c	0.1812(6)	-0.312(1)	-0.1710(8)	0.067(4)
H(131)	4c	0.1625(6)	-0.256(1)	-0.1791(8)	0.081
C(132)	4c	0.2232(7)	-0.296(2)	-0.1613(9)	0.085(5)
H(132)	4c	0.2317(7)	-0.231(2)	-0.1641(9)	0.102
C(133)	4c	0.2507(8)	-0.377(2)	-0.148(1)	0.098(6)
H(133)	4c	0.2790(8)	-0.366(2)	-0.140(1)	0.117
C(134)	4c	0.2387(6)	-0.475(2)	-0.1459(9)	0.089(5)
H(134)	4c	0.2581(6)	-0.530(2)	-0.1367(9)	0.107
C(135)	4c	0.1954(5)	-0.489(2)	-0.1583(8)	0.073(4)
H(135)	4c	0.1856(5)	-0.555(2)	-0.1595(8)	0.087
C(140)	4c	0.0990(5)	-0.310(1)	-0.1674(7)	0.049(3)
C(141)	4c	0.1363(6)	-0.266(1)	-0.1033(8)	0.070(5)
H(141)	4c	0.1663(6)	-0.297(1)	-0.0721(8)	0.084
C(142)	4c	0.1252(7)	-0.171(2)	-0.090(1)	0.094(6)
H(142)	4c	0.1488(7)	-0.137(2)	-0.050(1)	0.112
C(143)	4c	0.0815(7)	-0.130(2)	-0.134(1)	0.096(6)
H(143)	4c	0.0751(7)	-0.069(2)	-0.123(1)	0.116
C(144)	4c	0.0458(7)	-0.173(2)	-0.1938(9)	0.078(5)
H(144)	4c	0.0154(7)	-0.143(2)	-0.2231(9)	0.094
C(145)	4c	0.0556(5)	-0.264(1)	-0.2109(7)	0.053(4)
H(145)	4c	0.0318(5)	-0.293(1)	-0.2528(7)	0.063
C(150)	4c	-0.0552(5)	-0.550(1)	-0.3246(6)	0.044(3)
C(151)	4c	-0.0853(5)	-0.626(1)	-0.3700(8)	0.062(4)
H(151)	4c	-0.0723(5)	-0.688(1)	-0.3686(8)	0.074
C(152)	4c	-0.1353(6)	-0.610(1)	-0.4183(9)	0.072(5)
H(152)	4c	-0.1559(6)	-0.662(1)	-0.4480(9)	0.087
C(153)	4c	-0.1532(7)	-0.515(1)	-0.4207(9)	0.075(5)
H(153)	4c	-0.1862(7)	-0.504(1)	-0.4535(9)	0.090
C(154)	4c	-0.1270(5)	-0.443(1)	-0.3804(8)	0.064(4)
H(154)	4c	-0.1411(5)	-0.382(1)	-0.3835(8)	0.077
C(155)	4c	-0.0758(4)	-0.456(1)	-0.3305(6)	0.049(3)
H(155)	4c	-0.0564(4)	-0.402(1)	-0.3022(6)	0.058
C(160)	4c	0.0215(4)	-0.6966(9)	-0.2546(6)	0.034(3)
C(161)	4c	0.0546(5)	-0.734(1)	-0.2590(7)	0.057(4)
H(161)	4c	0.0721(5)	-0.688(1)	-0.2620(7)	0.068
C(162)	4c	0.0619(7)	-0.838(2)	-0.2589(9)	0.078(5)
H(162)	4c	0.0832(7)	-0.862(2)	-0.2635(9)	0.094
C(163)	4c	0.0369(7)	-0.905(2)	-0.2520(9)	0.089(6)
H(163)	4c	0.0406(7)	-0.975(2)	-0.2528(9)	0.106
C(164)	4c	0.0058(6)	-0.868(2)	-0.2436(9)	0.075(5)
H(164)	4c	-0.0099(6)	-0.913(2)	-0.2368(9)	0.090
C(165)	4c	-0.0013(5)	-0.765(1)	-0.2455(7)	0.053(4)
H(165)	4c	-0.0224(5)	-0.742(1)	-0.2405(7)	0.063
B(1)	4c	0.5862(4)	0.3338(9)	0.3589(5)	0.070
F(1)	4c	0.5554(6)	0.292(2)	0.3627(9)	0.211(9)
F(2)	4c	0.5830(6)	0.286(2)	0.3123(8)	0.217(9)
F(3)	4c	0.5757(7)	0.432(1)	0.343(1)	0.24(1)
F(4)	4c	0.6307(5)	0.325(2)	0.4174(8)	0.205(8)
B(2)	4c	0.1807(3)	-0.7219(7)	-0.2507(4)	0.070
F(5)	4c	0.1447(5)	-0.707(1)	-0.2507(7)	0.169(6)
F(6)	4c	0.1867(5)	-0.637(1)	-0.2730(7)	0.147(5)
F(7)	4c	0.2220(5)	-0.743(1)	-0.1880(7)	0.217(9)
F(8)	4c	0.1696(5)	-0.801(1)	-0.2912(7)	0.165(6)

Table 3. Final atomic coordinates and displacement parameters (in Å²)

Atom	Site	x	y	z	U ₁₁	U ₂₂	U ₃₃	U ₁₂	U ₁₃	U ₂₃
C(1)	4c	−0.2572(5)	−0.627(1)	−0.2764(7)	0.060(9)	0.052(9)	0.053(9)	0.001(7)	0.046(8)	0.009(7)
C(2)	4c	−0.2286(5)	−0.693(1)	−0.2865(7)	0.046(8)	0.052(9)	0.048(8)	0.005(7)	0.035(7)	0.011(7)
C(3)	4c	−0.1615(5)	−0.807(1)	−0.2221(7)	0.053(9)	0.054(9)	0.040(8)	0.010(8)	0.025(7)	0.009(7)
C(4)	4c	−0.1372(5)	−0.748(1)	−0.2416(7)	0.046(8)	0.06(1)	0.054(9)	0.004(8)	0.035(8)	0.002(8)
C(5)	4c	−0.2042(5)	−0.629(1)	−0.3053(7)	0.044(7)	0.039(8)	0.050(8)	0.005(6)	0.037(7)	0.001(6)
C(6)	4c	−0.2376(5)	−0.588(1)	−0.3763(6)	0.056(8)	0.044(8)	0.038(7)	0.005(7)	0.034(7)	0.007(6)
C(101)	4c	0.0212(4)	−0.525(1)	−0.1867(6)	0.045(7)	0.062(9)	0.047(8)	0.004(7)	0.038(7)	0.001(7)
C(102)	4c	0.0643(5)	−0.571(1)	−0.1216(6)	0.050(8)	0.060(9)	0.035(7)	0.006(7)	0.031(7)	0.008(7)
C(103)	4c	0.0871(7)	−0.611(2)	−0.0152(8)	0.09(1)	0.09(1)	0.06(1)	0.02(1)	0.06(1)	0.03(1)
C(104)	4c	0.1339(6)	−0.554(2)	0.0211(7)	0.07(1)	0.09(1)	0.031(8)	0.01(1)	0.026(9)	−0.002(9)
C(105)	4c	0.1109(4)	−0.509(1)	−0.0853(6)	0.043(7)	0.07(1)	0.024(6)	0.009(7)	0.020(6)	0.012(6)
C(106)	4c	0.1329(5)	−0.514(1)	−0.1164(7)	0.053(8)	0.052(9)	0.058(9)	0.004(7)	0.038(8)	0.008(7)
O(1)	4c	−0.1936(3)	−0.7433(8)	−0.2250(4)	0.036(5)	0.069(6)	0.033(5)	0.016(5)	0.022(4)	0.019(5)
O(2)	4c	−0.1726(3)	−0.6962(7)	−0.3040(4)	0.044(5)	0.060(6)	0.051(6)	0.009(5)	0.037(5)	0.010(5)
O(3)	4c	−0.1864(4)	−0.8842(9)	−0.2716(6)	0.060(6)	0.065(7)	0.079(7)	0.011(6)	0.049(6)	0.017(6)
O(4)	4c	−0.1088(3)	−0.6721(9)	−0.1897(5)	0.045(5)	0.082(8)	0.057(6)	−0.003(5)	0.034(5)	0.001(6)
O(101)	4c	0.0514(3)	−0.5724(9)	−0.0817(5)	0.061(6)	0.102(9)	0.049(6)	0.018(6)	0.040(5)	0.032(6)
O(102)	4c	0.1470(3)	−0.5532(9)	−0.0189(5)	0.055(6)	0.095(8)	0.045(6)	0.019(6)	0.029(5)	0.021(6)
O(103)	4c	0.0965(5)	−0.714(1)	−0.0182(6)	0.096(9)	0.09(1)	0.060(7)	0.006(8)	0.046(7)	0.026(7)
O(104)	4c	0.1254(5)	−0.454(1)	0.0289(5)	0.106(9)	0.11(1)	0.057(7)	0.001(9)	0.053(7)	−0.009(8)
P(1)	4c	−0.3201(1)	−0.5968(3)	−0.3467(2)	0.046(2)	0.043(2)	0.050(2)	0.001(2)	0.036(2)	0.001(2)
P(2)	4c	−0.2703(1)	−0.4671(3)	−0.3940(2)	0.052(2)	0.048(2)	0.041(2)	0.000(2)	0.034(2)	0.005(2)
P(101)	4c	0.0099(1)	−0.5605(3)	−0.2632(2)	0.041(2)	0.043(2)	0.039(2)	0.000(2)	0.030(2)	0.001(2)
P(102)	4c	0.1119(1)	−0.4317(3)	−0.1861(2)	0.040(2)	0.049(2)	0.039(2)	−0.002(2)	0.026(2)	−0.001(2)
Rh(1)	4c	−0.34380(3)	−0.46809(9)	−0.42132(5)	0.0467(6)	0.0496(7)	0.0473(6)	0.0078(6)	0.0312(5)	0.0077(6)
Rh(2)	4c	0.04747(3)	−0.48031(8)	−0.29426(4)	0.0370(5)	0.0513(6)	0.0333(5)	−0.0069(6)	0.0245(4)	−0.0024(6)

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