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Displacement Parameters ($\text{\AA}^2 \times 10^3$) for 2. U(eq) Is Defined as One Third of the Trace of the Orthogonalized Uij Tensor.

	x	y	z	U(eq)
Ru(1)	1315(1)	2667(1)	2040(1)	33(1)
P(1)	2872(2)	2119(1)	2995(1)	37(1)
P(2)	2490(2)	4359(1)	2547(1)	36(1)
P(3)	2775(2)	2705(1)	1196(1)	36(1)
S(1)	-728(2)	2398(2)	2613(1)	44(1)
B(1)	-1083(9)	2824(8)	1513(6)	48(2)
C(1)	4705(7)	2697(5)	2950(5)	40(2)
C(2)	4355(7)	4466(6)	2993(5)	41(2)
C(3)	4494(7)	3610(5)	1625(4)	39(2)
C(4)	4995(7)	3736(5)	2585(4)	39(2)
C(5)	6579(8)	4187(6)	2802(5)	50(2)
C(21)	2205(5)	2973(4)	4366(3)	51(2)
C(31)	2343(6)	3214(4)	5209(3)	66(3)
C(41)	3265(6)	2864(4)	5806(2)	68(3)
C(51)	4049(5)	2273(4)	5560(3)	64(2)
C(61)	3911(5)	2032(4)	4718(3)	56(2)
C(11)	2989(5)	2382(4)	4121(2)	40(2)
C(22)	3864(4)	352(4)	2963(4)	60(2)
C(32)	3678(5)	-685(4)	2965(4)	76(3)
C(42)	2375(6)	-1318(3)	2969(4)	72(3)
C(52)	1260(5)	-915(4)	2971(4)	78(3)
C(62)	1446(5)	122(4)	2968(4)	64(2)
C(12)	2749(5)	755(3)	2964(3)	41(2)
C(23)	653(5)	5080(4)	3221(3)	61(2)
C(33)	217(4)	5600(5)	3795(4)	80(3)
C(43)	1173(6)	6114(4)	4512(3)	75(3)
C(53)	2565(6)	6107(4)	4654(3)	72(3)
C(63)	3002(4)	5586(4)	4079(3)	56(2)
C(13)	2046(5)	5073(4)	3363(3)	40(2)
C(24)	1834(5)	5069(3)	974(3)	45(2)
C(34)	1978(5)	5764(4)	383(2)	54(2)
C(44)	2882(6)	6726(3)	613(3)	62(2)
C(54)	3642(5)	6993(3)	1434(3)	63(2)
C(64)	3499(5)	6299(4)	2026(2)	52(2)
C(14)	2595(5)	5337(3)	1796(2)	37(2)
C(25)	2039(4)	639(4)	775(4)	59(2)
C(35)	2266(5)	-293(3)	617(4)	80(3)
C(45)	3615(7)	-365(3)	666(4)	80(3)
C(55)	4737(5)	496(4)	873(4)	79(3)
C(65)	4510(4)	1428(4)	1032(4)	58(2)
C(15)	3161(5)	1500(3)	983(3)	42(2)
C(26)	3365(4)	3406(4)	-310(3)	61(2)
C(36)	3004(5)	3607(5)	-1139(3)	73(3)
C(46)	1606(6)	3424(5)	-1551(3)	76(3)
C(56)	568(4)	3040(5)	-1135(3)	71(3)
C(66)	928(4)	2839(4)	-307(3)	52(2)
C(16)	2327(5)	3022(4)	106(2)	40(2)
C(27)	-1804(6)	454(4)	1810(3)	56(2)
C(37)	-2364(6)	-583(4)	1789(3)	72(3)
C(47)	-2673(7)	-1009(3)	2501(4)	81(3)
C(57)	-2422(7)	-397(5)	3233(3)	94(3)
C(67)	-1861(7)	640(4)	3254(3)	68(3)
C(17)	-1553(6)	1066(3)	2543(3)	46(2)
C(6)	-1625(15)	1323(10)	4061(9)	111(4)
C7a	-940(6)	940(4)	4710(3)	180(3)
C7b	-2470(3)	962(18)	4658(15)	120(11)

C7a and C7b were assigned a population factor of 0.4 and 0.6 respectively.

Table S2. Bond Distances (Å) and Angles (deg) for 2.

Distances	
Ru(1)-P(3)	2.251(2)
Ru(1)-P(1)	2.266(2)
Ru(1)-P(2)	2.359(2)
Ru(1)-S(1)	2.428(2)
<i>Ru(1)-B(1)</i>	<i>2.473(9)</i>
P(1)-C(12)	1.847(4)
P(1)-C(1)	1.852(7)
P(1)-C(11)	1.857(4)
P(2)-C(2)	1.846(7)
P(2)-C(13)	1.850(4)
P(2)-C(14)	1.854(4)
P(3)-C(15)	1.844(4)
P(3)-C(3)	1.842(7)
P(3)-C(16)	1.850(4)
S(1)-C(17)	1.797(5)
S(1)-B(1)	1.911(9)
C(1)-C(4)	1.551(10)
C(2)-C(4)	1.546(10)
C(3)-C(4)	1.544(10)
C(4)-C(5)	1.528(10)
C(21)-C(31)	1.3900
C(21)-C(11)	1.3900
C(31)-C(41)	1.3900
C(41)-C(51)	1.3900
C(51)-C(61)	1.3900
C(61)-C(11)	1.3900
C(22)-C(32)	1.3900
C(22)-C(12)	1.3900
C(32)-C(42)	1.3900
C(42)-C(52)	1.3900
C(52)-C(62)	1.3900
C(62)-C(12)	1.3900
C(23)-C(33)	1.3900
C(23)-C(13)	1.3900
C(33)-C(43)	1.3900
C(43)-C(53)	1.3900
C(53)-C(63)	1.3900
C(63)-C(13)	1.3900
C(24)-C(34)	1.3900
C(24)-C(14)	1.3900
C(34)-C(44)	1.3900
C(44)-C(54)	1.3900
C(54)-C(64)	1.3900
C(64)-C(14)	1.3900
C(25)-C(35)	1.3900
C(25)-C(15)	1.3900
C(35)-C(45)	1.3900
C(45)-C(55)	1.3900
C(55)-C(65)	1.3900
C(65)-C(15)	1.3900
C(26)-C(36)	1.3900
C(26)-C(16)	1.3900
C(36)-C(46)	1.3900
C(46)-C(56)	1.3900
C(56)-C(66)	1.3900
C(66)-C(16)	1.3900
C(27)-C(37)	1.3900
C(27)-C(17)	1.3900
C(37)-C(47)	1.3900

C(47)-C(57)	1.3900
C(57)-C(67)	1.3900
C(67)-C(17)	1.3900
C(67)-C(6)	1.547(14)
C(6)-C7a	1.34(5)
C(6)-C7b	1.46(3)

Angles

P(3)-Ru(1)-P(1)	86.23(8)
P(3)-Ru(1)-P(2)	89.90(7)
P(1)-Ru(1)-P(2)	90.60(7)
P(3)-Ru(1)-S(1)	164.49(7)
P(1)-Ru(1)-S(1)	104.30(8)
P(2)-Ru(1)-S(1)	101.18(7)
C(12)-P(1)-C(1)	103.1(3)
C(12)-P(1)-C(11)	99.5(2)
C(1)-P(1)-C(11)	100.8(3)
C(12)-P(1)-Ru(1)	118.87(19)
C(1)-P(1)-Ru(1)	112.7(2)
C(11)-P(1)-Ru(1)	119.02(18)
C(2)-P(2)-C(13)	102.1(3)
C(2)-P(2)-C(14)	101.5(3)
C(13)-P(2)-C(14)	97.5(2)
C(2)-P(2)-Ru(1)	109.4(2)
C(13)-P(2)-Ru(1)	124.30(19)
C(14)-P(2)-Ru(1)	118.73(17)
C(15)-P(3)-C(3)	105.0(3)
C(15)-P(3)-C(16)	97.8(3)
C(3)-P(3)-C(16)	102.7(3)
C(15)-P(3)-Ru(1)	115.78(19)
C(3)-P(3)-Ru(1)	111.9(2)
C(16)-P(3)-Ru(1)	121.48(18)
C(17)-S(1)-B(1)	107.7(4)
C(17)-S(1)-Ru(1)	109.0(2)
B(1)-S(1)-Ru(1)	68.3(3)
C(4)-C(1)-P(1)	116.0(5)
C(4)-C(2)-P(2)	116.5(5)
C(4)-C(3)-P(3)	115.6(5)
C(5)-C(4)-C(3)	107.3(6)
C(5)-C(4)-C(2)	107.8(6)
C(3)-C(4)-C(2)	112.6(6)
C(5)-C(4)-C(1)	107.1(6)
C(3)-C(4)-C(1)	110.9(6)
C(2)-C(4)-C(1)	110.9(6)
C(31)-C(21)-C(11)	120.0
C(21)-C(31)-C(41)	120.0
C(31)-C(41)-C(51)	120.0
C(61)-C(51)-C(41)	120.0
C(51)-C(61)-C(11)	120.0
C(61)-C(11)-C(21)	120.0
C(61)-C(11)-P(1)	120.1(3)
C(21)-C(11)-P(1)	119.8(3)
C(32)-C(22)-C(12)	120.0
C(22)-C(32)-C(42)	120.0
C(32)-C(42)-C(52)	120.0
C(42)-C(52)-C(62)	120.0
C(12)-C(62)-C(52)	120.0
C(62)-C(12)-C(22)	120.0
C(62)-C(12)-P(1)	115.8(3)
C(22)-C(12)-P(1)	124.2(3)
C(33)-C(23)-C(13)	120.0
C(43)-C(33)-C(23)	120.0

C(53)-C(43)-C(33)	120.0
C(43)-C(53)-C(63)	120.0
C(53)-C(63)-C(13)	120.0
C(63)-C(13)-C(23)	120.0
C(63)-C(13)-P(2)	124.4(3)
C(23)-C(13)-P(2)	115.6(3)
C(34)-C(24)-C(14)	120.0
C(24)-C(34)-C(44)	120.0
C(34)-C(44)-C(54)	120.0
C(64)-C(54)-C(44)	120.0
C(54)-C(64)-C(14)	120.0
C(64)-C(14)-C(24)	120.0
C(64)-C(14)-P(2)	121.1(3)
C(24)-C(14)-P(2)	118.7(3)
C(35)-C(25)-C(15)	120.0
C(25)-C(35)-C(45)	120.0
C(55)-C(45)-C(35)	120.0
C(45)-C(55)-C(65)	120.0
C(15)-C(65)-C(55)	120.0
C(65)-C(15)-C(25)	120.0
C(65)-C(15)-P(3)	122.7(3)
C(25)-C(15)-P(3)	117.3(3)
C(36)-C(26)-C(16)	120.0
C(26)-C(36)-C(46)	120.0
C(56)-C(46)-C(36)	120.0
C(46)-C(56)-C(66)	120.0
C(16)-C(66)-C(56)	120.0
C(66)-C(16)-C(26)	120.0
C(66)-C(16)-P(3)	119.1(3)
C(26)-C(16)-P(3)	120.9(3)
C(37)-C(27)-C(17)	120.0
C(27)-C(37)-C(47)	120.0
C(57)-C(47)-C(37)	120.0
C(47)-C(57)-C(67)	120.0
C(57)-C(67)-C(17)	120.0
C(57)-C(67)-C(6)	119.9(6)
C(17)-C(67)-C(6)	120.0(6)
C(67)-C(17)-C(27)	120.0
C(67)-C(17)-S(1)	118.6(3)
C(27)-C(17)-S(1)	121.3(3)
C7a-C(6)-C(67)	109(3)
C7b-C(6)-C(67)	118.4(13)

Table S3. Anisotropic Displacement Parameters ($\text{\AA}^2 \times 10^3$) for 2. The Anisotropic Displacement Factor Exponent Takes the Form: $-2\pi^2[h^2a^{*2}U_{11}+\dots+2hka^*b^*U_{12}]$

	U11	U22	U33	U23	U13	U12
Ru(1)	27(1)	35(1)	34(1)	7(1)	4(1)	6(1)
P(1)	32(1)	38(1)	40(1)	9(1)	5(1)	9(1)
P(2)	34(1)	36(1)	37(1)	4(1)	4(1)	8(1)
P(3)	32(1)	36(1)	38(1)	7(1)	8(1)	8(1)
S(1)	37(1)	48(1)	46(1)	9(1)	12(1)	10(1)
B(1)	38(5)	66(6)	46(6)	24(5)	10(4)	22(5)

Table S4. Hydrogen Coordinates ($\times 10^4$) and Isotropic Displacement Parameters ($\text{\AA}^2 \times 10^3$) for 2.

	x	y	z	U(eq)
H(1A)	5292	2775	3511	34(7)
H(1B)	4986	2231	2619	34(7)
H(2A)	4886	5152	2957	34(7)
H(2B)	4476	4358	3579	34(7)
H(3A)	5183	3395	1398	34(7)
H(3B)	4461	4264	1432	34(7)
H(5A)	6816	4807	2548	42(11)
H(5B)	7052	3729	2629	42(11)
H(5C)	6858	4322	3397	42(11)
H(21)	1589	3207	3967	62
H(31)	1819	3610	5373	80
H(41)	3357	3026	6370	81
H(51)	4665	2039	5960	76
H(61)	4435	1636	4553	67
H(22)	4736	776	2960	72
H(32)	4424	-954	2964	91
H(42)	2251	-2012	2971	87
H(52)	388	-1339	2973	93
H(62)	700	391	2969	77
H(23)	14	4736	2741	73
H(33)	-715	5605	3700	96
H(43)	881	6462	4896	90
H(53)	3205	6450	5133	86
H(63)	3934	5582	4174	67
H(24)	1230	4425	820	54
H(34)	1469	5585	-167	65
H(44)	2977	7191	217	74
H(54)	4247	7637	1588	76
H(64)	4008	6478	2575	62
H(25)	1137	687	742	71
H(35)	1515	-869	478	96
H(45)	3767	-989	560	97
H(55)	5639	448	906	94
H(65)	5261	2004	1171	70
H(26)	4300	3529	-34	73
H(36)	3699	3864	-1417	88
H(46)	1365	3559	-2106	91
H(56)	-368	2917	-1411	85
H(66)	234	2582	-29	63
H(27)	-1598	739	1335	68
H(37)	-2532	-992	1300	86
H(47)	-3048	-1703	2487	97
H(57)	-2628	-682	3709	112