

SUPPORTING INFORMATION

Preparation and Reactivity of Stannyl Complexes of Ruthenium(II)

Stabilized by the Indenyl Ligand

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Table S1. Selected bond lengths [Å] and angles [°] for **4b**.

Ru(1)–Sn(1)	2.5697(4)	Ru(1)–Ct01	1.9252(3)
Ru(1)–P(1)	2.3204(11)	Ru(1)–P(2)	2.2085(12)
Ru(1)–C(1)	2.246(4)	Ru(1)–C(2)	2.213(4)
Ru(1)–C(3)	2.201(4)	Ru(1)–C(4)	2.332(4)
Ru(1)–C(5)	2.362(4)	Sn(1)–C(11)	2.151(5)
Sn(1)–C(21)	2.128(5)	Sn(1)–C(31)	2.121(5)
C(11)–C(12)	1.201(6)	C(12)–C(13)	1.427(7)
C(21)–C(22)	1.174(6)	C(22)–C(23)	1.444(7)
C(31)–C(32)	1.189(6)	C(32)–C(33)	1.446(7)
Ct01–Ru(1)–P(1)	126.09(3)	Ct01–Ru(1)–P(2)	125.64(4)
P(2)–Ru(1)–P(1)	94.31(5)	Ct01–Ru(1)–Sn(1)	116.198(15)
P(2)–Ru(1)–Sn(1)	91.43(4)	P(1)–Ru(1)–Sn(1)	94.37(3)
C(11)–Sn(1)–C(21)	97.84(18)	C(21)–Sn(1)–C(31)	103.19(19)
C(11)–Sn(1)–C(31)	100.38(18)	Ru(1)–Sn(1)–C(11)	112.77(13)
Ru(1)–Sn(1)–C(31)	111.93(13)	Ru(1)–Sn(1)–C(21)	126.95(13)
Sn(1)–C(11)–C(12)	172.1(4)	Sn(1)–C(21)–C(22)	177.1(5)
Sn(1)–C(31)–C(32)	164.8(4)	C(11)–C(12)–C(13)	178.4(6)
C(21)–C(22)–C(23)	178.1(6)	C(31)–C(32)–C(33)	178.1(5)

* Ct represents the centroid of the five-membered ring in the indenyl ligand.

Table S2. Selected bond lengths [$\text{\AA}$] and angles [$^\circ$] for **8b**.

<i>Molecule 1</i>			
Ru(1)–Ct01	1.9255(4)	Ru(1)–P(1)	2.3138(12)
Ru(1)–P(2)	2.2070(13)	Ru(1)–Sn(1)	2.5639(5)
Ru(1)–C(1)	2.220(5)	Ru(1)–C(2)	2.182(5)
Ru(1)–C(3)	2.222(5)	Ru(1)–C(4)	2.365(5)
Ru(1)–C(5)	2.370(5)	Sn(1)–O(11)	2.008(4)
Sn(1)–O(12)	2.010(4)	Sn(1)–O(13)	1.976(5)
Ct01–Ru(1)–P(1)	124.61(3)	Ct01–Ru(1)–P(2)	124.26(4)
P(1)–Ru(1)–P(2)	91.94(4)	Ct01–Ru(1)–Sn(1)	121.463(19)
P(1)–Ru(1)–Sn(1)	95.62(3)	P(2)–Ru(1)–Sn(1)	89.91(4)
O(13)–Sn(1)–O(11)	96.3(2)	O(13)–Sn(1)–O(12)	94.6(3)
O(11)–Sn(1)–O(12)	93.89(19)	O(13)–Sn(1)–Ru(1)	122.32(19)
O(11)–Sn(1)–Ru(1)	117.66(14)	O(12)–Sn(1)–Ru(1)	124.97(16)
<i>Molecule 2</i>			
Ru(2)–Ct02	1.9169(4)	Ru(2)–P(21)	2.3054(12)
Ru(2)–P(22)	2.2380(12)	Ru(2)–Sn(2)	2.5315(5)
Ru(2)–C(201)	2.216(5)	Ru(2)–C(202)	2.228(6)
Ru(2)–C(203)	2.231(5)	Ru(2)–C(204)	2.338(5)
Ru(2)–C(205)	2.302(4)	Sn(2)–O(211)	2.012(3)
Sn(2)–O(212)	2.002(3)	Sn(2)–O(213)	2.003(3)
Ct02–Ru(2)–P(21)	125.41(3)	Ct02–Ru(2)–P(22)	126.92(3)
P(21)–Ru(2)–P(22)	93.66(4)	Ct02–Ru(2)–Sn(2)	116.787(19)
P(22)–Ru(2)–Sn(2)	88.64(3)	P(21)–Ru(2)–Sn(2)	96.23(3)
O(211)–Sn(2)–O(212)	93.81(15)	O(211)–Sn(2)–O(213)	95.82(16)
O(212)–Sn(2)–O(213)	95.93(15)	O(211)–Sn(2)–Ru(2)	126.02(9)
O(212)–Sn(2)–Ru(2)	121.56(9)	O(213)–Sn(2)–Ru(2)	116.86(10)

* Ct represent the centroid of the five-membered ring in the indenyl ligand.