

## Novel organotin complexes derive from 2, 2'-selenodiacetic acid: synthesis, and biological evaluation

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Table S1

Selected bond lengths (Å) and angles (°) for complex 1

Sn(1)-C(6)	2.12(2)	Sn(2)-C(8)	2.12(2)
Sn(1)-C(5)	2.13(3)	Sn(2)-C(10)	2.14(2)
Sn(1)-C(7)	2.14(2)	Sn(2)-O(2)#2	2.193(14)
Sn(1)-O(4)#1	2.181(14)	Sn(2)-O(3)	2.459(15)
Sn(1)-O(1)	2.414(14)	Se(1)-C(3)	1.93(2)
Sn(2)-C(9)	2.10(3)	Se(1)-C(1)	1.95(2)
C(6)-Sn(1)-C(5)	120.3(13)	C(9)-Sn(2)-C(8)	125.7(10)
C(6)-Sn(1)-C(7)	119.5(12)	C(9)-Sn(2)-C(10)	115.3(11)
C(5)-Sn(1)-C(7)	119.3(14)	C(8)-Sn(2)-C(10)	118.5(11)
C(6)-Sn(1)-O(4)#1	94.2(8)	C(9)-Sn(2)-O(2)#2	94.8(8)
C(5)-Sn(1)-O(4)#1	98.1(10)	C(8)-Sn(2)-O(2)#2	94.0(9)
C(7)-Sn(1)-O(4)#1	87.3(9)	C(10)-Sn(2)-O(2)#2	87.6(8)
C(6)-Sn(1)-O(1)	89.3(8)	C(9)-Sn(2)-O(3)	88.9(8)
C(5)-Sn(1)-O(1)	87.9(10)	C(8)-Sn(2)-O(3)	88.6(9)
C(7)-Sn(1)-O(1)	83.1(9)	C(10)-Sn(2)-O(3)	85.5(8)
O(4)#1-Sn(1)-O(1)	170.3(6)	O(2)#2-Sn(2)-O(3)	173.1(5)

#1 x,y+1,z    #2 x+1,y,z

Table S2

Selected bond lengths (Å) and angles (°) for complex 2

Sn(1)-O(5)	2.022(3)	Sn(2)-O(5)	2.048(3)
Sn(1)-C(4)	2.094(5)	Sn(2)-C(7)	2.094(5)
Sn(1)-C(3)	2.102(6)	Sn(2)-C(6)	2.103(5)
Sn(1)-O(1)	2.178(3)	Sn(2)-O(5)#1	2.153(3)
Sn(1)-O(3)	2.249(3)	Sn(2)-O(4)	2.274(3)

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O(5)-Sn(1)-C(4)	112.53(18)	O(5)-Sn(2)-C(7)	106.94(16)
O(5)-Sn(1)-C(3)	111.7(2)	O(5)-Sn(2)-C(6)	103.67(17)
C(4)-Sn(1)-C(3)	135.7(2)	C(7)-Sn(2)-C(6)	147.9(2)
O(5)-Sn(1)-O(1)	77.95(11)	O(5)-Sn(2)-O(5)#1	75.23(13)
C(4)-Sn(1)-O(1)	95.06(17)	C(7)-Sn(2)-O(5)#1	96.58(16)
C(3)-Sn(1)-O(1)	96.4(2)	C(6)-Sn(2)-O(5)#1	100.44(18)
O(5)-Sn(1)-O(3)	91.67(12)	O(5)-Sn(2)-O(4)	87.93(12)
C(4)-Sn(1)-O(3)	86.01(17)	C(7)-Sn(2)-O(4)	82.65(17)
C(3)-Sn(1)-O(3)	90.2(2)	C(6)-Sn(2)-O(4)	88.98(19)
O(1)-Sn(1)-O(3)	169.17(13)	O(5)#1-Sn(2)-O(4)	162.19(13)

#1 -x+1,-y+1,-z+2

Table S3

Selected bond lengths (Å) and angles (°) for complex **3**

Sn(1)-C(9)	2.104(9)	Sn(3)-C(29)	2.101(9)
Sn(1)-C(5)	2.107(9)	Sn(3)-C(33)	2.112(9)
Sn(1)-C(1)	2.109(9)	Sn(3)-O(4)	2.201(12)
Sn(1)-O(1)	2.203(12)	Sn(3)-O(7)	2.390(12)
Sn(2)-C(13)	2.103(9)	Sn(4)-C(45)	2.077(9)
Sn(2)-C(21)	2.114(9)	Sn(4)-C(41)	2.082(9)
Sn(2)-C(17)	2.115(9)	Sn(4)-C(37)	2.115(9)
Sn(2)-O(5)	2.158(12)	Sn(4)-O(8)#5	2.177(12)
Sn(2)-O(2)	2.426(11)	Sn(4)-O(6)	2.426(14)
Sn(3)-C(25)	2.096(9)		
C(9)-Sn(1)-C(5)	114.4(7)	C(25)-Sn(3)-C(29)	111.7(7)
C(9)-Sn(1)-C(1)	116.5(6)	C(25)-Sn(3)-C(33)	123.5(7)
C(5)-Sn(1)-C(1)	127.7(7)	C(29)-Sn(3)-C(33)	121.3(8)
C(9)-Sn(1)-O(1)	97.1(5)	C(25)-Sn(3)-O(4)	96.1(6)
C(5)-Sn(1)-O(1)	90.1(6)	C(29)-Sn(3)-O(4)	95.3(6)
C(1)-Sn(1)-O(1)	94.9(6)	C(33)-Sn(3)-O(4)	97.2(6)
C(9)-Sn(1)-O(3)	81.2(5)	C(25)-Sn(3)-O(7)	85.9(5)
C(5)-Sn(1)-O(3)	86.5(6)	C(29)-Sn(3)-O(7)	80.8(5)
C(1)-Sn(1)-O(3)	89.9(6)	C(33)-Sn(3)-O(7)	84.5(6)
O(1)-Sn(1)-O(3)	175.2(4)	O(4)-Sn(3)-O(7)	176.0(5)
C(13)-Sn(2)-C(21)	116.9(7)	C(45)-Sn(4)-C(41)	127.4(8)
C(13)-Sn(2)-C(17)	126.4(7)	C(45)-Sn(4)-C(37)	98.7(7)
C(21)-Sn(2)-C(17)	115.7(7)	C(41)-Sn(4)-C(37)	130.9(8)
C(13)-Sn(2)-O(5)	91.9(6)	C(45)-Sn(4)-O(8)#5	106.0(7)
C(21)-Sn(2)-O(5)	99.4(6)	C(41)-Sn(4)-O(8)#5	91.7(7)
C(17)-Sn(2)-O(5)	88.6(6)	C(37)-Sn(4)-O(8)#5	90.5(7)
C(13)-Sn(2)-O(2)	89.9(5)	C(45)-Sn(4)-O(6)	76.3(6)
C(21)-Sn(2)-O(2)	84.2(6)	C(41)-Sn(4)-O(6)	93.3(6)
C(17)-Sn(2)-O(2)	86.4(5)	C(37)-Sn(4)-O(6)	81.0(7)
O(5)-Sn(2)-O(2)	174.7(4)	O(8)#5-Sn(4)-O(6)	171.4(5)

#5 x-1/2,y,-z+1/2

Table S4

Selected bond lengths (Å) and angles (°) for complex **4**

Sn(1)-C(5)	2.155(19)	Sn(2)-C(16)	2.07(2)
Sn(1)-O(1)	2.146(10)	Sn(2)-O(7)	2.085(13)
Sn(1)-O(5)	2.153(10)	Sn(2)-O(3)	2.136(12)
Sn(1)-C(9)	2.181(19)	Sn(2)-C(20)	2.15(2)
Sn(1)-O(6)	2.504(11)	Sn(2)-O(8)	2.552(13)
Sn(1)-O(2)	2.541(10)		
C(5)-Sn(1)-O(1)	102.8(6)	C(9)-Sn(1)-O(2)	90.8(5)
C(5)-Sn(1)-O(5)	107.1(6)	O(6)-Sn(1)-O(2)	170.9(4)
O(1)-Sn(1)-O(5)	79.6(4)	C(16)-Sn(2)-O(7)	105.6(8)
C(5)-Sn(1)-C(9)	140.6(7)	C(16)-Sn(2)-O(3)	108.5(7)
O(1)-Sn(1)-C(9)	108.0(6)	O(7)-Sn(2)-O(3)	82.2(5)
O(5)-Sn(1)-C(9)	102.2(6)	C(16)-Sn(2)-C(20)	137.0(8)
C(5)-Sn(1)-O(6)	85.6(6)	O(7)-Sn(2)-C(20)	100.3(7)
O(1)-Sn(1)-O(6)	131.9(4)	O(3)-Sn(2)-C(20)	108.7(6)
O(5)-Sn(1)-O(6)	53.1(4)	C(16)-Sn(2)-O(8)	81.2(8)
C(9)-Sn(1)-O(6)	91.6(6)	O(7)-Sn(2)-O(8)	54.4(4)
C(5)-Sn(1)-O(2)	86.9(6)	O(3)-Sn(2)-O(8)	136.2(5)
O(1)-Sn(1)-O(2)	55.2(4)	C(20)-Sn(2)-O(8)	86.8(7)
O(5)-Sn(1)-O(2)	134.7(4)		