

Selected Bond Lengths (Å) and Bond Angles (°) for Compounds **1** and **2**

Compound 1			
<i>Lengths</i>		<i>Angles</i>	
W(1)–O(20)	1.724(5)	O(27)–Bi(1)–O(30)	87.3(2)
W(1)–O(1)	1.888(5)	O(27)–Bi(1)–O(26)	90.5(2)
W(1)–O(17)	1.890(7)	O(30)–Bi(1)–O(26)	88.5(2)
W(1)–O(3)	1.900(6)	O(27)–Bi(1)–O(2)#2	76.08(19)
W(1)–O(19)	1.945(6)	O(30)–Bi(1)–O(2)#2	91.5(2)
W(1)–O(11)	2.200(4)	O(26)–Bi(1)–O(2)#2	166.6(2)
Bi(1)–O(27)	2.083(5)	O(6)–Co(1)–O(5)	106.4(2)
Bi(1)–O(30)	2.153(5)	O(5)–Co(1)–O(11)	105.8(2)
Bi(1)–O(26)	2.226(5)	O(27)–Co(1)–O(11)	117.2(2)
Bi(1)–O(2)#2	2.407(6)	O(22)#2–Co(2)–O(15)	98.0(2)
Bi(1)–O(23)#2	2.544(5)	O(15)–Co(2)–O(27)	91.5(2)
Co(1)–O(6)	1.933(5)	O(22)#2–Co(2)–O(27)	170.12(19)
Co(1)–O(5)	1.939(6)	O(15)–Co(2)–O(27)#2	166.11(19)
Co(1)–O(27)	1.960(4)	O(22)#2–Co(2)–O(27)#2	89.6(2)
Co(1)–O(11)	1.995(6)	O(27)–Co(2)–O(27)#2	81.6(2)
Co(2)–O(15)	2.067(5)		
Co(2)–O(22)#2	2.069(6)		
Co(2)–O(27)	2.109(5)		
Co(2)–O(23)#2	2.110(6)		
Co(2)–O(27)#2	2.116(6)		
Co(2)–O(2)	2.117(6)		
Compound 2			
<i>Lengths</i>		<i>Angles</i>	
W(1)–O(22)	1.735(18)	O(27)#2–Bi(1)–O(14)	88.7(7)
W(1)–O(12)	1.813(16)	O(27)#2–Bi(1)–O(11)	90.3(6)
W(1)–O(1)	1.914(13)	O(14)–Bi(1)–O(11)	89.5(7)
W(1)–O(13)	1.945(19)	O(14)–Bi(1)–O(8)#2	90.4(7)
W(1)–O(20)	2.066(18)	O(11)–Bi(1)–O(8)#2	167.8(6)
W(1)–O(7)	2.175(15)	O(27)#2–Bi(1)–O(8)#2	77.5(5)
Bi(1)–O(27) #2	2.061(16)	O(28)–Zn(1)–O(30)	107.2(7)
Bi(1)–O(14)	2.177(19)	O(30)–Zn(1)–O(7)	105.7(6)
Bi(1)–O(11)	2.289(16)	O(7)–Zn(1)–O(27)	117.6(8)
Bi(1)–O(8) #2	2.378(16)	O(9)–Zn(2)–O(27)#2	91.2(7)
Bi(1)–O(12)	2.48(2)	O(9)–Zn(2)–O(23)	98.0(8)
Zn(1)–O(28)	1.936(15)	O(23)#2–Zn(2)–O(27)	170.3(7)
Zn(1)–O(30)	1.953(18)	O(9)–Zn(2)–O(27)	165.8(7)
Zn(1)–O(7)	1.954(18)	O(27)#2–Zn(2)–O(27)	82.3(7)
Zn(1)–O(27)	1.959(16)	O(8)–Zn(2)–O(27)	80.9(6)
Zn(2)–O(9)	2.082(17)		
Zn(2)–O(23)	2.10(2)		

Zn(2)-O(27) #2	2.108(18)	
Zn(2)-O(8)	2.133(15)	
Zn(2)-O(12)	2.134(17)	
Zn(2)-O(27)	2.168(16)	

Symmetry transformations used to generate equivalent atoms:

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