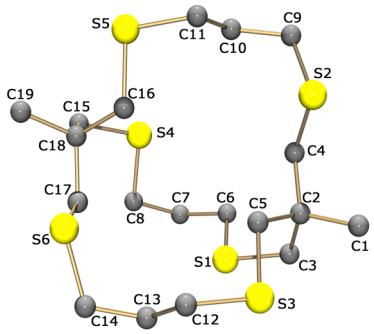
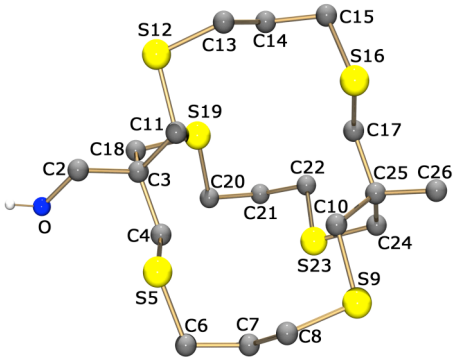
Table S1: Bond Lengths and Angles in **9**



C(1)-C(2)	1.526(11)	S(4)-C(15)	1.813(9)
C(2)-C(4)	1.535(11)	C(9)-C(10)	1.522(13)
C(2)-C(5)	1.536(12)	C(10)-C(11)	1.503(13)
C(2)-C(3)	1.542(11)	C(11)-S(5)	1.793(10)
C(3)-S(1)	1.800(9)	S(5)-C(16)	1.815(8)
S(1)-C(6)	1.792(8)	C(12)-C(13)	1.525(13)
C(4)-S(2)	1.826(8)	C(13)-C(14)	1.510(13)
S(2)-C(9)	1.791(9)	C(14)-S(6)	1.805(9)
C(5)-S(3)	1.805(9)	S(6)-C(17)	1.803(8)
S(3)-C(12)	1.790(9)	C(15)-C(18)	1.571(11)
C(6)-C(7)	1.512(12)	C(16)-C(18)	1.530(12)
C(7)-C(8)	1.523(12)	C(17)-C(18)	1.552(11)
C(8)-S(4)	1.813(9)		

C(1)-C(2)-C(4)	111.4(7)	C(11)-C(10)-C(9)	114.4(8)
C(1)-C(2)-C(5)	109.4(7)	C(10)-C(11)-S(5)	114.9(7)
C(4)-C(2)-C(5)	108.9(7)	C(11)-S(5)-C(16)	99.1(4)
C(1)-C(2)-C(3)	107.7(7)	C(13)-C(12)-S(3)	114.3(6)
C(4)-C(2)-C(3)	108.3(7)	C(14)-C(13)-C(12)	113.1(7)
C(5)-C(2)-C(3)	111.2(7)	C(13)-C(14)-S(6)	116.6(6)
C(2)-C(3)-S(1)	118.6(6)	C(17)-S(6)-C(14)	100.4(4)
C(6)-S(1)-C(3)	103.3(4)	C(18)-C(15)-S(4)	116.4(6)
C(2)-C(4)-S(2)	112.7(6)	C(18)-C(16)-S(5)	113.1(6)
C(9)-S(2)-C(4)	100.1(4)	C(18)-C(17)-S(6)	111.6(5)
C(2)-C(5)-S(3)	113.6(5)	C(16)-C(18)-C(19)	111.4(7)
C(12)-S(3)-C(5)	99.5(4)	C(16)-C(18)-C(17)	110.4(6)
C(7)-C(6)-S(1)	111.1(6)	C(19)-C(18)-C(17)	110.3(7)
C(6)-C(7)-C(8)	115.3(7)	C(16)-C(18)-C(15)	111.6(7)
C(7)-C(8)-S(4)	109.0(6)	C(19)-C(18)-C(15)	106.1(7)
C(8)-S(4)-C(15)	103.9(4)	C(17)-C(18)-C(15)	107.0(6)
C(10)-C(9)-S(2)	115.8(7)		

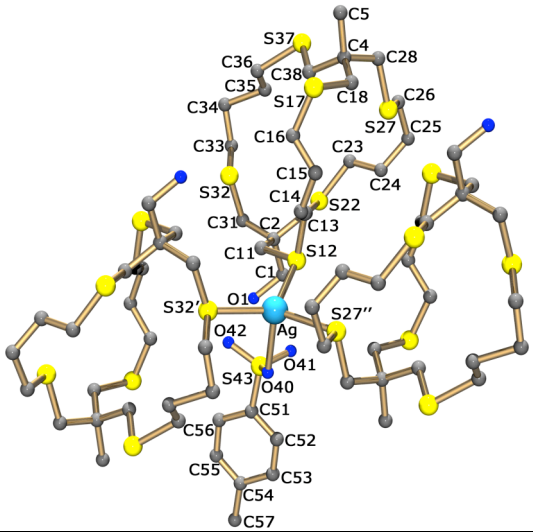
Table S2: Bond Lengths and Angles in **11**



O(1)-C(2)	1.419(5)	C(17)-C(25)	1.543(7)	S(39)-C(40)	1.816(4)
C(2)-C(3)	1.541(5)	C(18)-S(19)	1.818(4)	C(40)-C(55)	1.534(6)
C(3)-C(11)	1.526(6)	S(19)-C(20)	1.809(5)	C(41)-S(42)	1.821(4)
C(3)-C(18)	1.546(6)	C(20)-C(21)	1.527(6)	S(42)-C(43)	1.747(6)
C(3)-C(4)	1.547(6)	C(21)-C(22)	1.503(7)	C(43)-C(44)	1.380(9)
C(4)-S(5)	1.815(4)	C(22)-S(23)	1.813(5)	C(44)-C(45)	1.593(9)
S(5)-C(6)	1.809(5)	S(23)-C(24)	1.803(5)	C(45)-S(46)	1.840(7)
C(6)-C(7)	1.527(6)	C(24)-C(25)	1.547(6)	S(46)-C(47)	1.832(5)
C(7)-C(8)	1.517(6)	C(25)-C(26)	1.526(6)	C(47)-C(55)	1.514(6)
C(8)-S(9)	1.812(5)	C(32)-C(33)	1.542(6)	C(48)-S(49)	1.814(4)
S(9)-C(10)	1.822(5)	C(33)-C(34)	1.535(6)	S(49)-C(50)	1.819(4)
C(10)-C(25)	1.536(6)	C(33)-C(48)	1.537(5)	C(50)-C(51)	1.520(6)
C(11)-S(12)	1.806(5)	C(33)-C(41)	1.537(5)	C(51)-C(52)	1.522(6)
S(12)-C(13)	1.800(5)	C(34)-S(35)	1.808(4)	C(52)-S(53)	1.805(4)
C(13)-C(14)	1.517(7)	S(35)-C(36)	1.822(5)	S(53)-C(54)	1.812(5)
C(14)-C(15)	1.525(7)	C(36)-C(37)	1.504(7)	C(54)-C(55)	1.545(6)
C(15)-S(16)	1.809(6)	C(37)-C(38)	1.527(7)	C(55)-C(56)	1.541(6)
S(16)-C(17)	1.819(4)	C(38)-S(39)	1.832(5)	C(56)-O(31B)	1.239(9)

O(1)-C(2)-C(3)	113.6(4)	C(37)-C(38)-S(39)	111.3(3)	O(31B)-C(56)-C(55)	108.9(6)
C(11)-C(3)-C(2)	109.4(3)	C(40)-S(39)-C(38)	98.1(2)		
C(11)-C(3)-C(18)	112.1(4)	C(55)-C(40)-S(39)	114.0(3)		
C(2)-C(3)-C(18)	107.1(4)	C(33)-C(41)-S(42)	112.6(3)		
C(11)-C(3)-C(4)	108.9(4)	C(43)-S(42)-C(41)	102.8(3)		
C(2)-C(3)-C(4)	110.6(4)	C(44)-C(43)-S(42)	115.9(6)		
C(18)-C(3)-C(4)	108.7(3)	C(43)-C(44)-C(45)	114.6(6)		
C(3)-C(4)-S(5)	112.0(3)	C(44)-C(45)-S(46)	110.9(4)		
C(6)-S(5)-C(4)	100.5(2)	C(47)-S(46)-C(45)	99.3(2)		
C(7)-C(6)-S(5)	114.1(3)	C(55)-C(47)-S(46)	114.9(3)		
C(8)-C(7)-C(6)	113.3(4)	C(33)-C(48)-S(49)	117.4(3)		
C(7)-C(8)-S(9)	114.8(4)	C(48)-S(49)-C(50)	101.0(2)		
C(8)-S(9)-C(10)	99.3(2)	C(51)-C(50)-S(49)	111.7(3)		
C(25)-C(10)-S(9)	114.1(3)	C(50)-C(51)-C(52)	114.8(3)		
C(3)-C(11)-S(12)	114.3(3)	C(51)-C(52)-S(53)	111.6(3)		
C(13)-S(12)-C(11)	98.5(2)	C(52)-S(53)-C(54)	101.2(2)		
C(14)-C(13)-S(12)	115.1(4)	C(55)-C(54)-S(53)	117.7(3)		
C(13)-C(14)-C(15)	112.8(4)	C(47)-C(55)-C(40)	108.9(4)		
C(14)-C(15)-S(16)	113.9(3)	C(47)-C(55)-C(56)	107.5(4)		
C(15)-S(16)-C(17)	99.2(2)	C(40)-C(55)-C(56)	111.6(4)		
C(25)-C(17)-S(16)	113.7(3)	C(47)-C(55)-C(54)	111.8(4)		
C(3)-C(18)-S(19)	117.1(3)	C(40)-C(55)-C(54)	108.3(3)		
C(20)-S(19)-C(18)	102.9(2)	C(56)-C(55)-C(54)	108.9(4)		

Table S3: Bond Lengths and Angles in [Ag(**14**)(tosylate)]

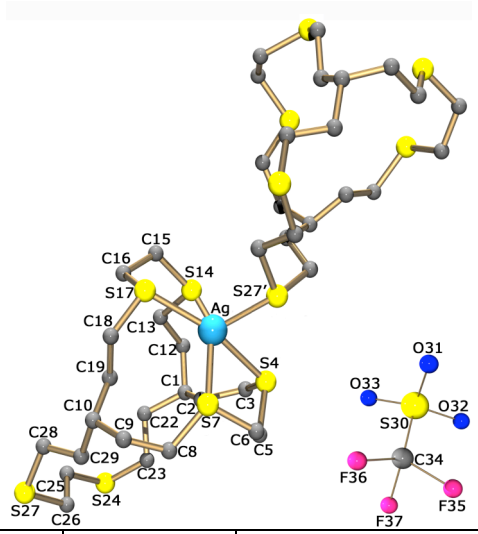


Ag(1)-O(40)	2.438(8)	Ag(1)-S(32)#1	2.511(4)	Ag(1)-S(27)#2	2.552(4)
Ag(1)-S(12)	2.563(4)	O(1)-C(2)	1.421(15)	C(2)-C(3)	1.501(15)
C(3)-C(21)	1.539(16)	C(3)-C(11)	1.528(14)	C(3)-C(31)	1.579(15)
C(11)-S(12)	1.790(13)	S(12)-C(13)	1.812(13)	C(13)-C(14)	1.445(15)
C(14)-C(15)	1.519(16)	C(15)-C(16)	1.508(15)	C(16)-S(17)	1.791(12)
S(17)-C(18)	1.808(12)	C(18)-C(4)	1.517(16)	C(21)-S(22)	1.823(10)
S(22)-C(23)	1.896(19)	C(23)-C(24)	1.37(2)	C(24)-C(25)	1.535(19)
C(25)-C(26)	1.495(16)	C(26)-S(27)	1.807(11)	S(27)-C(28)	1.908(11)
S(27)-Ag(1)#2	2.552(4)	C(28)-C(4)	1.502(16)	C(31)-S(32)	1.814(12)
S(32)-C(33)	1.818(11)	S(32)-Ag(1)#1	2.511(4)	C(33)-C(34)	1.543(16)
C(34)-C(35)	1.481(14)	C(35)-C(36)	1.372(14)	C(36)-S(37)	1.69(3)
S(37)-C(38)	1.793(12)	C(38)-C(4)	1.543(17)	C(4)-C(5)	1.577(15)
O(40)-S(43)	1.460(8)	O(41)-S(43)	1.455(10)	O(42)-S(43)	1.427(10)
S(43)-C(51)	1.731(13)	C(51)-C(52)	1.348(18)	C(51)-C(56)	1.418(17)
C(52)-C(53)	1.373(16)	C(53)-C(54)	1.420(19)	C(54)-C(55)	1.336(17)
C(54)-C(57)	1.500(15)	C(55)-C(56)	1.369(17)		

O(40)-Ag(1)-S(32)#1	94.1(2)	O(40)-Ag(1)-S(27)#2	94.6(2)	S(32)#1-Ag(1)-S(27)#2	127.41(12)
O(40)-Ag(1)-S(12)	106.3(2)	S(32)#1-Ag(1)-S(12)	122.64(13)	S(27)#2-Ag(1)-S(12)	104.07(13)
O(1)-C(2)-C(3)	113.1(13)	C(2)-C(3)-C(21)	108.5(12)	C(2)-C(3)-C(11)	111.9(10)
C(21)-C(3)-C(11)	113.0(11)	C(2)-C(3)-C(31)	106.3(11)	C(21)-C(3)-C(31)	108.3(10)
C(11)-C(3)-C(31)	108.3(10)	C(3)-C(11)-S(12)	115.6(10)	C(11)-S(12)-C(13)	101.4(7)
C(11)-S(12)-Ag(1)	112.5(5)	C(13)-S(12)-Ag(1)	107.5(5)	C(14)-C(13)-S(12)	117.1(11)
C(13)-C(14)-C(15)	115.7(12)	C(16)-C(15)-C(14)	113.6(12)	C(15)-C(16)-S(17)	114.6(10)
C(16)-S(17)-C(18)	102.4(6)	C(4)-C(18)-S(17)	119.5(10)	C(3)-C(21)-S(22)	114.7(9)
C(21)-S(22)-C(23)	99.2(7)	C(24)-C(23)-S(22)	115.3(16)	C(23)-C(24)-C(25)	114.8(18)
C(26)-C(25)-C(24)	117.8(15)	C(25)-C(26)-S(27)	109.1(9)	C(26)-S(27)-C(28)	101.3(6)
C(26)-S(27)-Ag(1)#2	107.2(5)	C(28)-S(27)-Ag(1)#2	104.0(4)	C(4)-C(28)-S(27)	110.0(9)
C(3)-C(31)-S(32)	111.6(9)	C(31)-S(32)-C(33)	102.7(5)	C(31)-S(32)-Ag(1)#1	113.6(5)
C(33)-S(32)-Ag(1)#1	107.2(5)	C(34)-C(33)-S(32)	110.6(9)	C(33)-C(34)-C(35)	104.2(15)
C(36)-C(35)-C(34)	123(2)	C(35)-C(36)-S(37)	125(2)	C(38)-S(37)-C(36)	102.8(10)
C(4)-C(38)-S(37)	111.4(10)	C(28)-C(4)-C(18)	110.3(12)	C(28)-C(4)-C(38)	112.6(11)
C(18)-C(4)-C(38)	111.5(12)	C(28)-C(4)-C(5)	105.0(12)	C(18)-C(4)-C(5)	107.0(10)
C(38)-C(4)-C(5)	110.0(12)	S(43)-O(40)-Ag(1)	112.5(4)	O(42)-S(43)-O(41)	110.6(7)
O(42)-S(43)-O(40)	112.2(6)	O(41)-S(43)-O(40)	112.9(6)	O(42)-S(43)-C(51)	107.4(7)
O(41)-S(43)-C(51)	107.7(7)	O(40)-S(43)-C(51)	105.6(6)	C(52)-C(51)-C(56)	116.7(14)
C(52)-C(51)-S(43)	119.8(13)	C(56)-C(51)-S(43)	123.6(12)	C(51)-C(52)-C(53)	123.3(16)
C(52)-C(53)-C(54)	120.9(15)	C(55)-C(54)-C(53)	114.3(14)	C(55)-C(54)-C(57)	123.1(16)
C(53)-C(54)-C(57)	122.5(14)	C(54)-C(55)-C(56)	126.5(17)	C(55)-C(56)-C(51)	118.4(15)

Symmetry transformations used to generate equivalent atoms: #1 -x+1,-y,-z; #2 -x,-y,-z

Table S4: Bond Lengths and Angles in [Ag(**24**)](triflate)



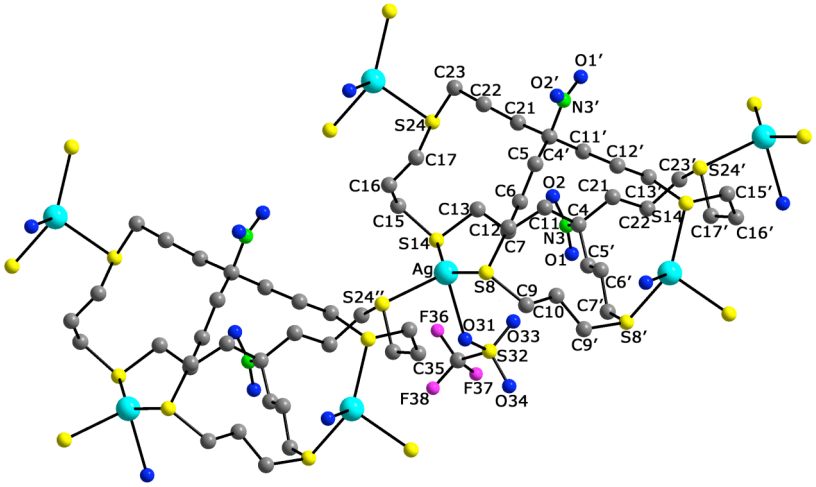
Ag-S(17)	2.516(3)	Ag-S(4)	2.603(3)	Ag-S(27)#1	2.687(3)
Ag-S(7)	2.800(3)	Ag-S(14)	2.967(3)	C(1)-C(2)	1.517(16)
C(1)-C(12)	1.541(16)	C(1)-C(22)	1.553(15)	C(2)-C(3)	1.522(14)
C(3)-S(4)	1.864(13)	S(4)-C(5)	1.789(12)	C(5)-C(6)	1.538(19)
C(6)-S(7)	1.805(14)	S(7)-C(8)	1.817(10)	C(8)-C(9)	1.519(15)
C(9)-C(10)	1.530(14)	C(10)-C(29)	1.494(14)	C(10)-C(19)	1.523(13)
C(12)-C(13)	1.516(17)	C(13)-S(14)	1.800(12)	S(14)-C(15)	1.797(13)
C(15)-C(16)	1.516(17)	C(16)-S(17)	1.831(12)	S(17)-C(18)	1.782(11)
C(18)-C(19)	1.545(14)	C(22)-C(23)	1.499(16)	C(23)-S(24)	1.776(13)
S(24)-C(25)	1.807(11)	C(25)-C(26)	1.502(13)	C(26)-S(27)	1.815(9)
S(27)-C(28)	1.781(10)	S(27)-Ag#2	2.687(3)	C(28)-C(29)	1.523(13)
S(30)-O(33)	1.395(8)	S(30)-O(31)	1.434(8)	S(30)-O(32)	1.474(8)
S(30)-C(34)	1.60(2)	C(34)-F(36)	1.320(14)	C(34)-F(35)	1.438(18)
C(34)-F(37)	1.49(2)				

S(17)-Ag-S(4)	163.37(10)	S(17)-Ag-S(27)#1	108.26(9)	S(4)-Ag-S(27)#1	88.36(9)
S(17)-Ag-S(7)	98.39(10)	S(4)-Ag-S(7)	81.21(10)	S(27)#1-Ag-S(7)	88.43(8)
S(17)-Ag-S(14)	80.48(11)	S(4)-Ag-S(14)	91.61(10)	S(27)#1-Ag-S(14)	120.45(9)
S(7)-Ag-S(14)	150.18(9)	C(2)-C(1)-C(12)	110.6(11)	C(2)-C(1)-C(22)	110.5(9)
C(12)-C(1)-C(22)	111.3(10)	C(1)-C(2)-C(3)	112.6(10)	C(2)-C(3)-S(4)	114.4(8)
C(5)-S(4)-C(3)	104.6(6)	C(5)-S(4)-Ag	103.9(4)	C(3)-S(4)-Ag	105.9(4)
C(6)-C(5)-S(4)	111.7(9)	C(5)-C(6)-S(7)	115.8(9)	C(6)-S(7)-C(8)	100.3(6)
C(6)-S(7)-Ag	95.8(5)	C(8)-S(7)-Ag	121.6(4)	C(9)-C(8)-S(7)	112.4(7)
C(8)-C(9)-C(10)	116.4(9)	C(29)-C(10)-C(19)	113.3(9)	C(29)-C(10)-C(9)	110.6(8)
C(19)-C(10)-C(9)	113.4(8)	C(13)-C(12)-C(1)	118.4(11)	C(12)-C(13)-S(14)	113.2(9)
C(15)-S(14)-C(13)	100.9(7)	C(15)-S(14)-Ag	92.2(4)	C(13)-S(14)-Ag	121.6(4)
C(16)-C(15)-S(14)	115.6(8)	C(15)-C(16)-S(17)	111.4(9)	C(18)-S(17)-C(16)	103.7(6)
C(18)-S(17)-Ag	102.9(4)	C(16)-S(17)-Ag	105.6(4)	C(19)-C(18)-S(17)	117.3(8)
C(10)-C(19)-C(18)	111.4(9)	C(23)-C(22)-C(1)	112.8(10)	C(22)-C(23)-S(24)	113.6(9)
C(23)-S(24)-C(25)	102.4(5)	C(26)-C(25)-S(24)	113.2(8)	C(25)-C(26)-S(27)	109.9(7)
C(28)-S(27)-C(26)	103.5(5)	C(28)-S(27)-Ag#2	105.6(3)	C(26)-S(27)-Ag#2	110.9(3)
C(29)-C(28)-S(27)	114.1(7)	C(10)-C(29)-C(28)	115.8(8)	O(33)-S(30)-O(31)	117.7(6)
O(33)-S(30)-O(32)	115.7(6)	O(31)-S(30)-O(32)	111.7(6)	O(33)-S(30)-	104.7(6)

				C(34)	
O(31)-S(30)-C(34)	99.8(7)	O(32)-S(30)-C(34)	104.6(8)	F(36)-C(34)-F(35)	102.7(10)
F(36)-C(34)-F(37)	99.9(13)	F(35)-C(34)-F(37)	93.6(16)	F(36)-C(34)-S(30)	122.4(18)
F(35)-C(34)-S(30)	118.3(10)	F(37)-C(34)-S(30)	114.9(7)		

Symmetry transformations used to generate equivalent atoms: #1 -x+3/2,-y,z+1/2; #2 -x+3/2,-y,z-1/2

Table S5: Bond Lengths and Angles in [Ag(**18**)(triflate)]



Ag-S(14)	2.5090(16)	Ag-S(8)	2.5164(15)	Ag-O(31)	2.526(4)
Ag-S(24)#2	2.6231(15)	O(1)-N(3)	1.208(6)	O(2)-N(3)	1.217(6)
N(3)-C(4)	1.544(6)	C(4)-C(11)	1.521(7)	C(4)-C(5)	1.524(6)
C(4)-C(21)	1.533(6)	C(5)-C(6)	1.526(6)	C(6)-C(7)	1.510(6)
C(7)-S(8)	1.817(4)	S(8)-C(9)	1.811(5)	C(9)-C(10)	1.518(6)
C(10)-C(9)#1	1.518(6)	C(11)-C(12)	1.526(7)	C(12)-C(13)	1.501(8)
C(13)-S(14)	1.825(6)	S(14)-C(15)	1.800(6)	S(14)-Ag#1	2.5090(16)
C(15)-C(16)	1.490(8)	C(16)-C(17)	1.448(8)	C(17)-S(24)#1	1.817(5)
C(21)-C(22)	1.507(7)	C(22)-C(23)	1.515(6)	C(23)-S(24)	1.816(5)
S(24)-C(17)#1	1.817(5)	S(24)-Ag#3	2.6231(15)	O(31)-S(32)	1.427(5)
S(32)-O(33)	1.415(5)	S(32)-O(34)	1.424(5)	S(32)-C(35)	1.802(7)
C(35)-F(37)	1.305(8)	C(35)-F(36)	1.325(8)	C(35)-F(38)	1.351(9)
N(41)-C(42)	1.093(10)	C(42)-C(43)	1.329(11)		

S(14)#1-Ag-S(8)	143.47(5)	S(14)#1-Ag-O(31)	101.70(12)	S(8)-Ag-O(31)	95.38(12)
S(14)#1-Ag-S(24)#2	110.57(5)	S(8)-Ag-S(24)#2	102.56(5)	O(31)-Ag-S(24)#2	85.99(12)
O(1)-N(3)-O(2)	123.0(5)	O(1)-N(3)-C(4)	119.9(4)	O(2)-N(3)-C(4)	117.1(5)
C(11)-C(4)-C(5)	114.1(4)	C(11)-C(4)-C(21)	109.8(4)	C(5)-C(4)-C(21)	113.9(4)
C(11)-C(4)-N(3)	106.2(4)	C(5)-C(4)-N(3)	107.0(4)	C(21)-C(4)-N(3)	104.9(4)
C(4)-C(5)-C(6)	114.1(4)	C(7)-C(6)-C(5)	110.0(4)	C(6)-C(7)-S(8)	116.1(3)
C(9)-S(8)-C(7)	103.6(2)	C(9)-S(8)-Ag	111.06(17)	C(7)-S(8)-Ag	116.96(16)
C(10)-C(9)-S(8)	117.4(3)	C(9)-C(10)-C(9)#1	109.2(5)	C(4)-C(11)-C(12)	116.3(4)
C(13)-C(12)-C(11)	109.1(5)	C(12)-C(13)-S(14)	110.5(4)	C(15)-S(14)-C(13)	101.7(3)
C(15)-S(14)-Ag#1	110.9(2)	C(13)-S(14A)-Ag#1	108.8(2)	C(16)-C(15)-S(14)	122.0(4)
C(17)-C(16)-C(15)	119.5(5)	C(16)-C(17)-S(24)#1	115.0(4)	C(22)-C(21)-C(4)	116.2(4)
C(21)-C(22)-C(23)	115.1(4)	C(22)-C(23)-S(24)	115.7(3)	C(23)-S(24)-C(17)#1	100.1(3)
C(23)-S(24)-Ag#3	98.70(17)	C(17)#1-S(24)-Ag#3	107.9(2)	S(32)-O(31)-Ag	129.8(3)
O(33)-S(32)-O(34)	113.2(3)	O(33)-S(32)-O(31)	116.5(3)	O(34)-S(32)-O(31)	113.5(3)
O(33)-S(32)-C(35)	104.4(3)	O(34)-S(32)-C(35)	102.7(4)	O(31)-S(32)-C(35)	104.6(3)
F(37)-C(35)-F(36)	110.4(7)	F(37)-C(35)-F(38)	106.8(6)	F(36)-C(35)-F(38)	104.7(6)
F(37)-C(35)-S(32)	112.9(5)	F(36)-C(35)-S(32)	112.4(5)	F(38)-C(35)-S(32)	177.7(13)

Symmetry transformations: #1 -x+1,y,-z+1/2; #2 -x+1/2,y-1/2,-z+1/2; #3 -x+1/2,y+1/2,-z+1/2