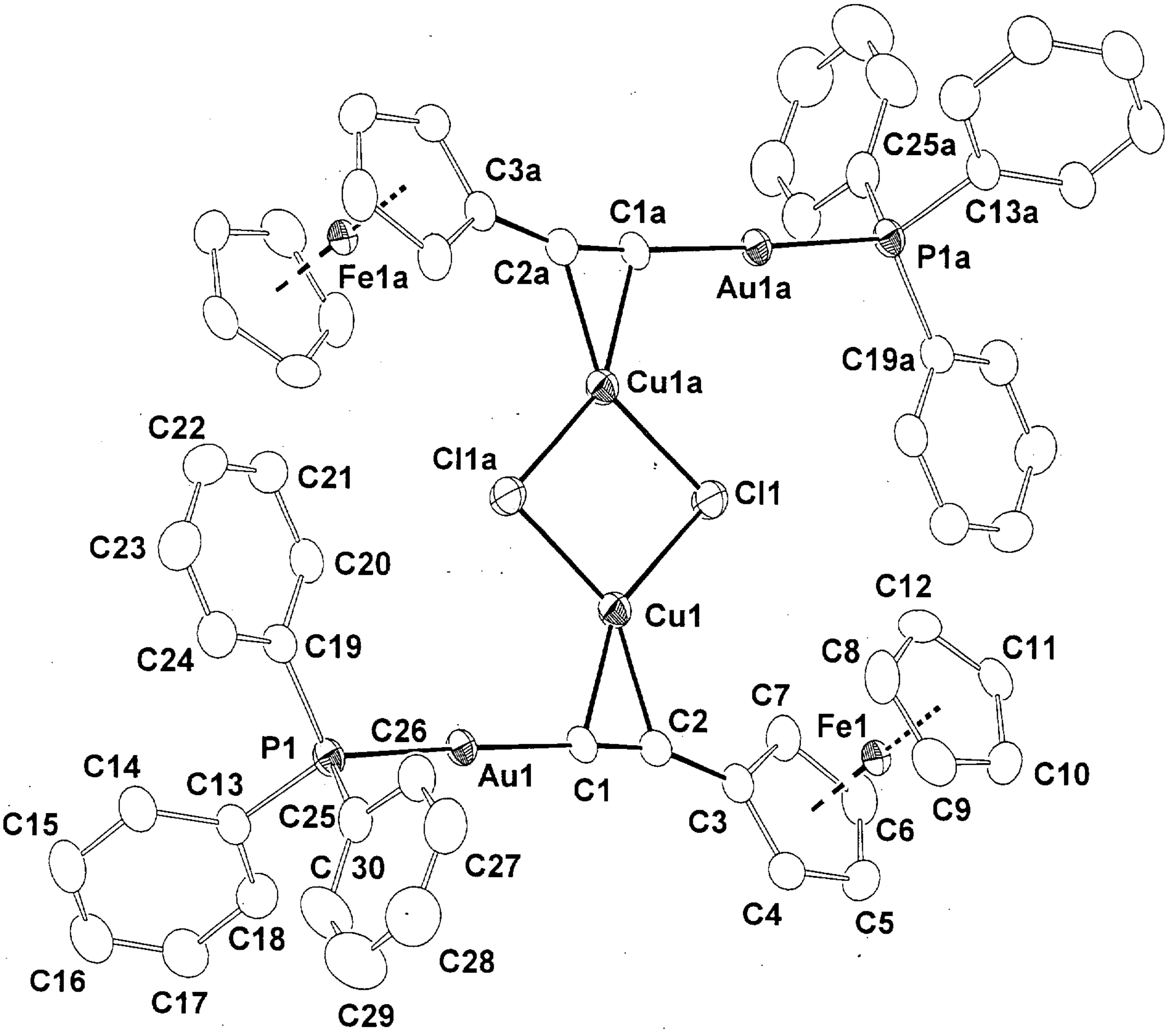
C3a
C1a
C25a
C13a
P1a
Fe1a
C2a
Au1a
C19a
Cu1a
C22
C21
Cl1a
Cl1
C23
C20
C12
Cu1
C8
C11
C24
C19
C7
C2
Fe1
C26
P1
C14
C13
Au1
C1
C10
C3
C9
C15
C25
C6
C 30
C27
C4
C5
C18
C28
C16
C17
C29

Compound 6.

Table 1. Crystal data for 6.

Identification code	**6**	
Crystal shape	broken piece	
Crystal colour	orange	
Crystal size	0.4 x 0.2 x 0.1 mm^3	
Empirical formula	C31 H26 Au Cl3 Cu Fe P	
Chemical formula	C60 H48 Au2 Cl2 Cu2 Fe2 P2, 2(CH2Cl2)	
Formula weight	852.19	
Crystal system	Triclinic	
Space group	P-1	
Unit cell dimensions	a = 10.42880(10) Å	α= 67.6206(5)°.
	b = 11.69620(10) Å	β= 82.2386(6)°.
	c = 14.3504(2) Å	γ = 64.5716(7)°.
Volume	1460.94(3) $Å^3$	
Z	2	
Density (calculated)	1.937 g/cm^3	
Radiation used	MoKα	
Wavelength	0.71073 Å	
Linear absorption coefficient	6.569mm^{-1}	
Temperature	173(2) K	

Table 2. Data collection details for 6.

Diffractometer	Bruker SMART CCD
Scan method	ω scans
Absorption correction	Empirical
Max. and min.transmission	0.350855 and 0.138235
Number of measured reflections	11535
Number of independent reflections	7643
Number of observed reflections	6089
Criterion of recognition (σ-limit)	>2sigma(I)
R(int) =	0.0484
Theta range for data collection	1.54 to 30.45°.
Completeness to theta = 30.45°	86.3 %
Index ranges	-8<=h<=14, -14<=k<=16, -19<=l<=19
F(000)	824

Table 3. Refinement details for 6.

Refinement method	Full-matrix least-squares on F^2
Final R indices [I>2sigma(I)]	R1 = 0.0494, wR2 = 0.1152
R indices (all data)	R1 = 0.0611, wR2 = 0.1194
R1 $[=\Sigma(\lvert\lvert Fo\rvert-\lvert Fc\rvert\rvert)/\Sigma\lvert Fo\rvert]$	
wR^2 $(=[\Sigma(w(Fo^2-Fc^2)^2)/\Sigma(wFo^4)]^{1/2})$	
H-locating and refining method	geom/mixed
Number of reflections used	7643
Number of L.S. restraints	0
Number of refined parameters	344
Goodness-of-fit on F^2	0.978
S $(=[\Sigma\ w(Fo^2-Fc^2)^2]/(n-p)^{1/2})$,	n= number of reflections, p= parameters used.
Definition of w	
calc $w=1/[\sigma^2(Fo^2)+(0.0443P)^2+0.0000P]$ where $P=(Fo^2+2Fc^2)/3$	
Maximum δ/σ	0.028
Maximum e-density	4.328 e.Å^{-3}
Minimun e-density	-4.360 e.Å^{-3}

Table 4. Computer Programs used for 6.

Data collection program	SMART
Cell refinement program	Saint
Data reduction program	ABSEN
Structure solving program	SIR97
Structure refinement program	SHELXL-97 (Sheldrick, 1997)
Pictures drawn with	Zortep/Platon
Tables made with	SHELX-97

Table 5. Atomic coordinates (x 10^4) and equivalent isotropic displacement parameters ($Å^2$x 10^3) for 6.

U(eq) is defined as one third of the trace of the orthogonalized U^{ij} tensor.

	x	y	z	U(eq)
Au(1)	955(1)	2673(1)	7997(1)	26(1)
Cu(1)	1255(1)	3982(1)	9600(1)	27(1)
Fe(1)	5227(1)	1485(1)	11223(1)	25(1)
Cl(1)	1178(2)	4996(2)	10690(1)	39(1)
P(1)	-508(2)	2497(2)	7063(1)	26(1)
C(1)	2313(7)	2720(7)	8848(4)	28(1)
C(2)	3200(7)	2718(6)	9331(4)	25(1)
C(3)	4529(7)	2438(7)	9746(4)	27(1)
C(4)	5821(7)	1255(7)	9868(5)	32(1)
C(5)	6889(7)	1400(8)	10271(5)	37(2)
C(6)	6274(7)	2663(8)	10400(5)	38(2)
C(7)	4808(7)	3317(7)	10084(5)	31(1)
C(8)	3746(8)	866(9)	12058(5)	43(2)
C(9)	5075(9)	-251(8)	12200(5)	43(2)
C(10)	6043(8)	22(7)	12592(5)	36(2)
C(11)	5303(8)	1306(7)	12693(5)	37(2)
C(12)	3878(8)	1814(8)	12360(5)	41(2)
C(13)	-253(7)	3105(6)	5713(5)	26(1)
C(14)	-1320(8)	3579(8)	5000(5)	38(2)
C(15)	-1050(9)	3955(8)	3975(6)	44(2)
C(16)	282(9)	3878(7)	3657(5)	41(2)
C(17)	1354(9)	3443(8)	4346(5)	43(2)
C(18)	1092(8)	3060(7)	5381(5)	37(2)
C(19)	-2392(7)	3331(7)	7253(4)	27(1)
C(20)	-2829(7)	4338(7)	7672(5)	31(1)
C(21)	-4271(7)	5025(7)	7799(5)	36(2)
C(22)	-5260(8)	4706(8)	7529(5)	38(2)
C(23)	-4818(8)	3696(7)	7126(6)	38(2)
C(24)	-3406(8)	3002(7)	6996(5)	35(2)
C(25)	-155(7)	726(7)	7411(5)	31(1)
C(26)	-441(8)	30(8)	8376(5)	38(2)
C(27)	-84(8)	-1363(8)	8714(6)	45(2)
C(28)	568(10)	-2066(9)	8084(7)	57(2)

C(29)	929(12)	-1401(9)	7136(8)	67(3)
C(30)	577(10)	-13(8)	6796(6)	52(2)
C(31)	6308(17)	662(15)	5247(7)	113(6)
Cl(2)	7952(3)	217(3)	5655(2)	87(1)
Cl(3)	5268(4)	2529(5)	4839(3)	118(1)

Table 6. Bond lengths [Å] and angles [°] for 6.

Au(1)-C(1)	2.020(6)	C(10)-C(11)	1.418(10)
Au(1)-P(1)	2.2804(16)	C(11)-C(12)	1.417(10)
Cu(1)-C(1)	2.014(6)	C(13)-C(14)	1.391(9)
Cu(1)-C(2)	2.025(6)	C(13)-C(18)	1.405(9)
Cu(1)-Cl(1)	2.2711(17)	C(14)-C(15)	1.392(10)
Cu(1)-Cl(1)#1	2.3107(18)	C(15)-C(16)	1.378(11)
Fe(1)-C(8)	2.036(7)	C(16)-C(17)	1.383(11)
Fe(1)-C(10)	2.038(7)	C(17)-C(18)	1.404(10)
Fe(1)-C(9)	2.040(7)	C(19)-C(20)	1.401(9)
Fe(1)-C(4)	2.041(6)	C(19)-C(24)	1.402(9)
Fe(1)-C(7)	2.043(7)	C(20)-C(21)	1.393(9)
Fe(1)-C(12)	2.046(6)	C(21)-C(22)	1.379(10)
Fe(1)-C(3)	2.046(6)	C(22)-C(23)	1.386(10)
Fe(1)-C(6)	2.047(7)	C(23)-C(24)	1.370(10)
Fe(1)-C(11)	2.049(6)	C(25)-C(26)	1.380(9)
Fe(1)-C(5)	2.049(7)	C(25)-C(30)	1.394(10)
Cl(1)-Cu(1)#1	2.3107(18)	C(26)-C(27)	1.399(10)
P(1)-C(25)	1.812(7)	C(27)-C(28)	1.369(12)
P(1)-C(19)	1.816(6)	C(28)-C(29)	1.379(12)
P(1)-C(13)	1.818(6)	C(29)-C(30)	1.394(11)
C(1)-C(2)	1.227(9)	C(31)-Cl(2)	1.680(13)
C(2)-C(3)	1.438(9)	C(31)-Cl(3)	1.858(16)
C(3)-C(4)	1.428(9)		
C(3)-C(7)	1.433(9)	C(1)-Au(1)-P(1)	176.90(19)
C(4)-C(5)	1.419(10)	C(1)-Cu(1)-C(2)	35.4(2)
C(5)-C(6)	1.411(11)	C(1)-Cu(1)-Cl(1)	152.00(18)
C(6)-C(7)	1.432(9)	C(2)-Cu(1)-Cl(1)	116.62(18)
C(8)-C(12)	1.397(11)	C(1)-Cu(1)-Cl(1)#1	113.96(18)
C(8)-C(9)	1.410(11)	C(2)-Cu(1)-Cl(1)#1	149.35(18)
C(9)-C(10)	1.416(11)	Cl(1)-Cu(1)-Cl(1)#1	94.03(6)

C(8)-Fe(1)-C(10)	68.0(3)	C(4)-Fe(1)-C(5)	40.6(3)
C(8)-Fe(1)-C(9)	40.5(3)	C(7)-Fe(1)-C(5)	68.7(3)
C(10)-Fe(1)-C(9)	40.6(3)	C(12)-Fe(1)-C(5)	161.8(3)
C(8)-Fe(1)-C(4)	121.7(3)	C(3)-Fe(1)-C(5)	68.7(3)
C(10)-Fe(1)-C(4)	124.9(3)	C(6)-Fe(1)-C(5)	40.3(3)
C(9)-Fe(1)-C(4)	107.9(3)	C(11)-Fe(1)-C(5)	124.5(3)
C(8)-Fe(1)-C(7)	125.6(3)	Cu(1)-Cl(1)-Cu(1)#1	85.97(6)
C(10)-Fe(1)-C(7)	155.2(3)	C(25)-P(1)-C(19)	105.0(3)
C(9)-Fe(1)-C(7)	162.6(3)	C(25)-P(1)-C(13)	105.5(3)
C(4)-Fe(1)-C(7)	68.8(3)	C(19)-P(1)-C(13)	107.0(3)
C(8)-Fe(1)-C(12)	40.0(3)	C(25)-P(1)-Au(1)	109.4(2)
C(10)-Fe(1)-C(12)	68.0(3)	C(19)-P(1)-Au(1)	115.0(2)
C(9)-Fe(1)-C(12)	67.8(3)	C(13)-P(1)-Au(1)	114.2(2)
C(4)-Fe(1)-C(12)	156.5(3)	C(2)-C(1)-Cu(1)	72.8(4)
C(7)-Fe(1)-C(12)	108.0(3)	C(2)-C(1)-Au(1)	176.3(5)
C(8)-Fe(1)-C(3)	108.4(3)	Cu(1)-C(1)-Au(1)	110.7(3)
C(10)-Fe(1)-C(3)	162.3(3)	C(1)-C(2)-C(3)	162.4(6)
C(9)-Fe(1)-C(3)	125.4(3)	C(1)-C(2)-Cu(1)	71.8(4)
C(4)-Fe(1)-C(3)	40.9(3)	C(3)-C(2)-Cu(1)	125.8(4)
C(7)-Fe(1)-C(3)	41.0(2)	C(4)-C(3)-C(7)	107.5(6)
C(12)-Fe(1)-C(3)	121.3(3)	C(4)-C(3)-C(2)	126.4(6)
C(8)-Fe(1)-C(6)	162.5(3)	C(7)-C(3)-C(2)	126.1(6)
C(10)-Fe(1)-C(6)	120.1(3)	C(4)-C(3)-Fe(1)	69.4(4)
C(9)-Fe(1)-C(6)	155.2(3)	C(7)-C(3)-Fe(1)	69.4(4)
C(4)-Fe(1)-C(6)	68.1(3)	C(2)-C(3)-Fe(1)	128.0(4)
C(7)-Fe(1)-C(6)	41.0(3)	C(5)-C(4)-C(3)	108.5(6)
C(12)-Fe(1)-C(6)	125.6(3)	C(5)-C(4)-Fe(1)	70.0(4)
C(3)-Fe(1)-C(6)	68.7(3)	C(3)-C(4)-Fe(1)	69.7(3)
C(8)-Fe(1)-C(11)	67.9(3)	C(6)-C(5)-C(4)	108.0(6)
C(10)-Fe(1)-C(11)	40.6(3)	C(6)-C(5)-Fe(1)	69.8(4)
C(9)-Fe(1)-C(11)	68.3(3)	C(4)-C(5)-Fe(1)	69.4(4)
C(4)-Fe(1)-C(11)	161.6(3)	C(5)-C(6)-C(7)	108.6(6)
C(7)-Fe(1)-C(11)	120.3(3)	C(5)-C(6)-Fe(1)	69.9(4)
C(12)-Fe(1)-C(11)	40.5(3)	C(7)-C(6)-Fe(1)	69.4(4)
C(3)-Fe(1)-C(11)	155.9(3)	C(6)-C(7)-C(3)	107.4(6)
C(6)-Fe(1)-C(11)	107.2(3)	C(6)-C(7)-Fe(1)	69.7(4)
C(8)-Fe(1)-C(5)	156.3(3)	C(3)-C(7)-Fe(1)	69.6(4)
C(10)-Fe(1)-C(5)	107.1(3)	C(12)-C(8)-C(9)	108.7(7)
C(9)-Fe(1)-C(5)	120.7(3)	C(12)-C(8)-Fe(1)	70.4(4)

C(9)-C(8)-Fe(1)	69.9(4)	C(16)-C(17)-C(18)	119.9(7)
C(8)-C(9)-C(10)	107.5(7)	C(17)-C(18)-C(13)	119.8(7)
C(8)-C(9)-Fe(1)	69.6(4)	C(20)-C(19)-C(24)	119.6(6)
C(10)-C(9)-Fe(1)	69.6(4)	C(20)-C(19)-P(1)	117.9(5)
C(9)-C(10)-C(11)	108.2(6)	C(24)-C(19)-P(1)	122.5(5)
C(9)-C(10)-Fe(1)	69.8(4)	C(21)-C(20)-C(19)	119.3(6)
C(11)-C(10)-Fe(1)	70.1(4)	C(22)-C(21)-C(20)	120.5(7)
C(12)-C(11)-C(10)	107.2(7)	C(21)-C(22)-C(23)	119.8(7)
C(12)-C(11)-Fe(1)	69.7(4)	C(24)-C(23)-C(22)	120.9(7)
C(10)-C(11)-Fe(1)	69.3(4)	C(23)-C(24)-C(19)	119.8(6)
C(8)-C(12)-C(11)	108.4(6)	C(26)-C(25)-C(30)	118.1(7)
C(8)-C(12)-Fe(1)	69.6(4)	C(26)-C(25)-P(1)	118.8(5)
C(11)-C(12)-Fe(1)	69.9(4)	C(30)-C(25)-P(1)	122.4(5)
C(14)-C(13)-C(18)	119.0(6)	C(25)-C(26)-C(27)	121.4(7)
C(14)-C(13)-P(1)	122.9(5)	C(28)-C(27)-C(26)	119.9(7)
C(18)-C(13)-P(1)	118.1(5)	C(27)-C(28)-C(29)	119.4(8)
C(13)-C(14)-C(15)	120.8(7)	C(28)-C(29)-C(30)	120.8(8)
C(16)-C(15)-C(14)	119.8(7)	C(29)-C(30)-C(25)	120.2(7)
C(15)-C(16)-C(17)	120.7(7)	Cl(2)-C(31)-Cl(3)	110.8(6)

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

Table 7. Torsion angles [°] for 6.

C(1)-Cu(1)-Cl(1)-Cu(1)#1	-178.5(4)
C(2)-Cu(1)-Cl(1)-Cu(1)#1	180.0(2)
Cl(1)#1-Cu(1)-Cl(1)-Cu(1)#1	0.0
C(1)-Au(1)-P(1)-C(25)	13(3)
C(1)-Au(1)-P(1)-C(19)	131(3)
C(1)-Au(1)-P(1)-C(13)	-105(3)
Cl(1)-Cu(1)-C(1)-C(2)	-2.3(7)
Cl(1)#1-Cu(1)-C(1)-C(2)	179.3(4)
C(2)-Cu(1)-C(1)-Au(1)	-178.8(6)
Cl(1)-Cu(1)-C(1)-Au(1)	178.91(16)
Cl(1)#1-Cu(1)-C(1)-Au(1)	0.6(4)
P(1)-Au(1)-C(1)-C(2)	60(11)
P(1)-Au(1)-C(1)-Cu(1)	-139(3)
Cu(1)-C(1)-C(2)-C(3)	-179(2)

Au(1)-C(1)-C(2)-C(3)	-17(11)
Au(1)-C(1)-C(2)-Cu(1)	162(9)
Cl(1)-Cu(1)-C(2)-C(1)	178.8(4)
Cl(1)#1-Cu(1)-C(2)-C(1)	-1.2(6)
C(1)-Cu(1)-C(2)-C(3)	179.5(8)
Cl(1)-Cu(1)-C(2)-C(3)	-1.8(6)
Cl(1)#1-Cu(1)-C(2)-C(3)	178.2(4)
C(1)-C(2)-C(3)-C(4)	-25(3)
Cu(1)-C(2)-C(3)-C(4)	156.5(5)
C(1)-C(2)-C(3)-C(7)	153(2)
Cu(1)-C(2)-C(3)-C(7)	-25.6(9)
C(1)-C(2)-C(3)-Fe(1)	-116(2)
Cu(1)-C(2)-C(3)-Fe(1)	65.3(7)
C(8)-Fe(1)-C(3)-C(4)	-117.5(4)
C(10)-Fe(1)-C(3)-C(4)	-42.2(10)
C(9)-Fe(1)-C(3)-C(4)	-75.9(5)
C(7)-Fe(1)-C(3)-C(4)	119.0(6)
C(12)-Fe(1)-C(3)-C(4)	-159.6(4)
C(6)-Fe(1)-C(3)-C(4)	80.8(4)
C(11)-Fe(1)-C(3)-C(4)	165.4(7)
C(5)-Fe(1)-C(3)-C(4)	37.4(4)
C(8)-Fe(1)-C(3)-C(7)	123.5(4)
C(10)-Fe(1)-C(3)-C(7)	-161.2(8)
C(9)-Fe(1)-C(3)-C(7)	165.1(4)
C(4)-Fe(1)-C(3)-C(7)	-119.0(6)
C(12)-Fe(1)-C(3)-C(7)	81.4(5)
C(6)-Fe(1)-C(3)-C(7)	-38.2(4)
C(11)-Fe(1)-C(3)-C(7)	46.4(8)
C(5)-Fe(1)-C(3)-C(7)	-81.6(4)
C(8)-Fe(1)-C(3)-C(2)	3.1(7)
C(10)-Fe(1)-C(3)-C(2)	78.5(11)
C(9)-Fe(1)-C(3)-C(2)	44.8(7)
C(4)-Fe(1)-C(3)-C(2)	120.7(8)
C(7)-Fe(1)-C(3)-C(2)	-120.3(7)
C(12)-Fe(1)-C(3)-C(2)	-39.0(7)
C(6)-Fe(1)-C(3)-C(2)	-158.5(7)
C(11)-Fe(1)-C(3)-C(2)	-73.9(9)
C(5)-Fe(1)-C(3)-C(2)	158.1(7)
C(7)-C(3)-C(4)-C(5)	-0.3(7)

C(2)-C(3)-C(4)-C(5)	177.9(6)
Fe(1)-C(3)-C(4)-C(5)	-59.4(5)
C(7)-C(3)-C(4)-Fe(1)	59.1(4)
C(2)-C(3)-C(4)-Fe(1)	-122.6(6)
C(8)-Fe(1)-C(4)-C(5)	-158.8(4)
C(10)-Fe(1)-C(4)-C(5)	-74.8(5)
C(9)-Fe(1)-C(4)-C(5)	-116.5(5)
C(7)-Fe(1)-C(4)-C(5)	81.6(5)
C(12)-Fe(1)-C(4)-C(5)	168.0(7)
C(3)-Fe(1)-C(4)-C(5)	119.6(6)
C(6)-Fe(1)-C(4)-C(5)	37.4(4)
C(11)-Fe(1)-C(4)-C(5)	-41.4(11)
C(8)-Fe(1)-C(4)-C(3)	81.6(5)
C(10)-Fe(1)-C(4)-C(3)	165.5(4)
C(9)-Fe(1)-C(4)-C(3)	123.9(4)
C(7)-Fe(1)-C(4)-C(3)	-38.0(4)
C(12)-Fe(1)-C(4)-C(3)	48.3(9)
C(6)-Fe(1)-C(4)-C(3)	-82.2(4)
C(11)-Fe(1)-C(4)-C(3)	-161.0(8)
C(5)-Fe(1)-C(4)-C(3)	-119.6(6)
C(3)-C(4)-C(5)-C(6)	0.0(8)
Fe(1)-C(4)-C(5)-C(6)	-59.3(5)
C(3)-C(4)-C(5)-Fe(1)	59.3(5)
C(8)-Fe(1)-C(5)-C(6)	169.2(6)
C(10)-Fe(1)-C(5)-C(6)	-116.6(4)
C(9)-Fe(1)-C(5)-C(6)	-158.8(4)
C(4)-Fe(1)-C(5)-C(6)	119.4(6)
C(7)-Fe(1)-C(5)-C(6)	37.5(4)
C(12)-Fe(1)-C(5)-C(6)	-45.3(11)
C(3)-Fe(1)-C(5)-C(6)	81.7(4)
C(11)-Fe(1)-C(5)-C(6)	-75.3(5)
C(8)-Fe(1)-C(5)-C(4)	49.9(9)
C(10)-Fe(1)-C(5)-C(4)	124.1(4)
C(9)-Fe(1)-C(5)-C(4)	81.8(5)
C(7)-Fe(1)-C(5)-C(4)	-81.8(4)
C(12)-Fe(1)-C(5)-C(4)	-164.6(8)
C(3)-Fe(1)-C(5)-C(4)	-37.7(4)
C(6)-Fe(1)-C(5)-C(4)	-119.4(6)
C(11)-Fe(1)-C(5)-C(4)	165.3(4)

C(4)-C(5)-C(6)-C(7)	0.4(8)
Fe(1)-C(5)-C(6)-C(7)	-58.7(5)
C(4)-C(5)-C(6)-Fe(1)	59.1(5)
C(8)-Fe(1)-C(6)-C(5)	-165.5(8)
C(10)-Fe(1)-C(6)-C(5)	81.0(5)
C(9)-Fe(1)-C(6)-C(5)	47.9(8)
C(4)-Fe(1)-C(6)-C(5)	-37.7(4)
C(7)-Fe(1)-C(6)-C(5)	-120.1(6)
C(12)-Fe(1)-C(6)-C(5)	164.2(4)
C(3)-Fe(1)-C(6)-C(5)	-81.8(4)
C(11)-Fe(1)-C(6)-C(5)	123.4(4)
C(8)-Fe(1)-C(6)-C(7)	-45.4(11)
C(10)-Fe(1)-C(6)-C(7)	-158.9(4)
C(9)-Fe(1)-C(6)-C(7)	167.9(6)
C(4)-Fe(1)-C(6)-C(7)	82.4(4)
C(12)-Fe(1)-C(6)-C(7)	-75.8(5)
C(3)-Fe(1)-C(6)-C(7)	38.2(4)
C(11)-Fe(1)-C(6)-C(7)	-116.6(4)
C(5)-Fe(1)-C(6)-C(7)	120.1(6)
C(5)-C(6)-C(7)-C(3)	-0.5(8)
Fe(1)-C(6)-C(7)-C(3)	-59.6(4)
C(5)-C(6)-C(7)-Fe(1)	59.1(5)
C(4)-C(3)-C(7)-C(6)	0.5(7)
C(2)-C(3)-C(7)-C(6)	-177.7(6)
Fe(1)-C(3)-C(7)-C(6)	59.7(5)
C(4)-C(3)-C(7)-Fe(1)	-59.1(4)
C(2)-C(3)-C(7)-Fe(1)	122.6(6)
C(8)-Fe(1)-C(7)-C(6)	164.8(4)
C(10)-Fe(1)-C(7)-C(6)	47.9(8)
C(9)-Fe(1)-C(7)-C(6)	-162.9(9)
C(4)-Fe(1)-C(7)-C(6)	-80.7(4)
C(12)-Fe(1)-C(7)-C(6)	124.0(5)
C(3)-Fe(1)-C(7)-C(6)	-118.6(6)
C(11)-Fe(1)-C(7)-C(6)	81.5(5)
C(5)-Fe(1)-C(7)-C(6)	-36.9(4)
C(8)-Fe(1)-C(7)-C(3)	-76.7(5)
C(10)-Fe(1)-C(7)-C(3)	166.4(6)
C(9)-Fe(1)-C(7)-C(3)	-44.4(11)
C(4)-Fe(1)-C(7)-C(3)	37.9(4)

C(12)-Fe(1)-C(7)-C(3)	-117.4(4)
C(6)-Fe(1)-C(7)-C(3)	118.6(6)
C(11)-Fe(1)-C(7)-C(3)	-160.0(4)
C(5)-Fe(1)-C(7)-C(3)	81.6(4)
C(10)-Fe(1)-C(8)-C(12)	81.5(5)
C(9)-Fe(1)-C(8)-C(12)	119.5(6)
C(4)-Fe(1)-C(8)-C(12)	-160.2(4)
C(7)-Fe(1)-C(8)-C(12)	-74.8(5)
C(3)-Fe(1)-C(8)-C(12)	-117.1(4)
C(6)-Fe(1)-C(8)-C(12)	-39.7(11)
C(11)-Fe(1)-C(8)-C(12)	37.5(4)
C(5)-Fe(1)-C(8)-C(12)	164.0(6)
C(10)-Fe(1)-C(8)-C(9)	-38.0(4)
C(4)-Fe(1)-C(8)-C(9)	80.4(5)
C(7)-Fe(1)-C(8)-C(9)	165.8(4)
C(12)-Fe(1)-C(8)-C(9)	-119.5(6)
C(3)-Fe(1)-C(8)-C(9)	123.4(4)
C(6)-Fe(1)-C(8)-C(9)	-159.2(8)
C(11)-Fe(1)-C(8)-C(9)	-82.0(5)
C(5)-Fe(1)-C(8)-C(9)	44.5(9)
C(12)-C(8)-C(9)-C(10)	-0.4(8)
Fe(1)-C(8)-C(9)-C(10)	59.5(5)
C(12)-C(8)-C(9)-Fe(1)	-59.9(5)
C(10)-Fe(1)-C(9)-C(8)	118.7(6)
C(4)-Fe(1)-C(9)-C(8)	-118.2(4)
C(7)-Fe(1)-C(9)-C(8)	-42.1(11)
C(12)-Fe(1)-C(9)-C(8)	37.2(4)
C(3)-Fe(1)-C(9)-C(8)	-76.3(5)
C(6)-Fe(1)-C(9)-C(8)	165.3(6)
C(11)-Fe(1)-C(9)-C(8)	81.0(5)
C(5)-Fe(1)-C(9)-C(8)	-160.8(4)
C(8)-Fe(1)-C(9)-C(10)	-118.7(6)
C(4)-Fe(1)-C(9)-C(10)	123.1(4)
C(7)-Fe(1)-C(9)-C(10)	-160.8(8)
C(12)-Fe(1)-C(9)-C(10)	-81.5(5)
C(3)-Fe(1)-C(9)-C(10)	165.0(4)
C(6)-Fe(1)-C(9)-C(10)	46.6(9)
C(11)-Fe(1)-C(9)-C(10)	-37.7(4)
C(5)-Fe(1)-C(9)-C(10)	80.5(5)

C(8)-C(9)-C(10)-C(11)	0.2(8)
Fe(1)-C(9)-C(10)-C(11)	59.8(5)
C(8)-C(9)-C(10)-Fe(1)	-59.5(5)
C(8)-Fe(1)-C(10)-C(9)	37.9(4)
C(4)-Fe(1)-C(10)-C(9)	-76.3(5)
C(7)-Fe(1)-C(10)-C(9)	166.4(6)
C(12)-Fe(1)-C(10)-C(9)	81.2(5)
C(3)-Fe(1)-C(10)-C(9)	-43.9(11)
C(6)-Fe(1)-C(10)-C(9)	-159.4(4)
C(11)-Fe(1)-C(10)-C(9)	119.2(6)
C(5)-Fe(1)-C(10)-C(9)	-117.4(5)
C(8)-Fe(1)-C(10)-C(11)	-81.3(5)
C(9)-Fe(1)-C(10)-C(11)	-119.2(6)
C(4)-Fe(1)-C(10)-C(11)	164.5(4)
C(7)-Fe(1)-C(10)-C(11)	47.2(9)
C(12)-Fe(1)-C(10)-C(11)	-38.0(5)
C(3)-Fe(1)-C(10)-C(11)	-163.1(8)
C(6)-Fe(1)-C(10)-C(11)	81.4(5)
C(5)-Fe(1)-C(10)-C(11)	123.4(5)
C(9)-C(10)-C(11)-C(12)	0.0(8)
Fe(1)-C(10)-C(11)-C(12)	59.6(5)
C(9)-C(10)-C(11)-Fe(1)	-59.6(5)
C(8)-Fe(1)-C(11)-C(12)	-37.1(5)
C(10)-Fe(1)-C(11)-C(12)	-118.5(7)
C(9)-Fe(1)-C(11)-C(12)	-80.8(5)
C(4)-Fe(1)-C(11)-C(12)	-162.5(9)
C(7)-Fe(1)-C(11)-C(12)	82.3(5)
C(3)-Fe(1)-C(11)-C(12)	48.9(9)
C(6)-Fe(1)-C(11)-C(12)	125.1(5)
C(5)-Fe(1)-C(11)-C(12)	166.0(5)
C(8)-Fe(1)-C(11)-C(10)	81.5(5)
C(9)-Fe(1)-C(11)-C(10)	37.7(5)
C(4)-Fe(1)-C(11)-C(10)	-44.0(11)
C(7)-Fe(1)-C(11)-C(10)	-159.1(4)
C(12)-Fe(1)-C(11)-C(10)	118.5(7)
C(3)-Fe(1)-C(11)-C(10)	167.5(6)
C(6)-Fe(1)-C(11)-C(10)	-116.4(5)
C(5)-Fe(1)-C(11)-C(10)	-75.4(5)
C(9)-C(8)-C(12)-C(11)	0.4(8)

Fe(1)-C(8)-C(12)-C(11)	-59.3(5)
C(9)-C(8)-C(12)-Fe(1)	59.7(5)
C(10)-C(11)-C(12)-C(8)	-0.2(8)
Fe(1)-C(11)-C(12)-C(8)	59.1(5)
C(10)-C(11)-C(12)-Fe(1)	-59.4(5)
C(10)-Fe(1)-C(12)-C(8)	-81.6(5)
C(9)-Fe(1)-C(12)-C(8)	-37.6(4)
C(4)-Fe(1)-C(12)-C(8)	46.5(9)
C(7)-Fe(1)-C(12)-C(8)	124.4(4)
C(3)-Fe(1)-C(12)-C(8)	81.4(5)
C(6)-Fe(1)-C(12)-C(8)	166.4(4)
C(11)-Fe(1)-C(12)-C(8)	-119.7(6)
C(5)-Fe(1)-C(12)-C(8)	-159.2(9)
C(8)-Fe(1)-C(12)-C(11)	119.7(6)
C(10)-Fe(1)-C(12)-C(11)	38.1(4)
C(9)-Fe(1)-C(12)-C(11)	82.1(5)
C(4)-Fe(1)-C(12)-C(11)	166.2(7)
C(7)-Fe(1)-C(12)-C(11)	-115.9(4)
C(3)-Fe(1)-C(12)-C(11)	-158.9(4)
C(6)-Fe(1)-C(12)-C(11)	-73.9(5)
C(5)-Fe(1)-C(12)-C(11)	-39.5(11)
C(25)-P(1)-C(13)-C(14)	85.5(6)
C(19)-P(1)-C(13)-C(14)	-25.9(6)
Au(1)-P(1)-C(13)-C(14)	-154.4(5)
C(25)-P(1)-C(13)-C(18)	-93.0(5)
C(19)-P(1)-C(13)-C(18)	155.5(5)
Au(1)-P(1)-C(13)-C(18)	27.1(6)
C(18)-C(13)-C(14)-C(15)	2.6(10)
P(1)-C(13)-C(14)-C(15)	-175.9(6)
C(13)-C(14)-C(15)-C(16)	-1.1(12)
C(14)-C(15)-C(16)-C(17)	-0.5(12)
C(15)-C(16)-C(17)-C(18)	0.7(12)
C(16)-C(17)-C(18)-C(13)	0.8(11)
C(14)-C(13)-C(18)-C(17)	-2.4(10)
P(1)-C(13)-C(18)-C(17)	176.2(5)
C(25)-P(1)-C(19)-C(20)	140.0(5)
C(13)-P(1)-C(19)-C(20)	-108.2(5)
Au(1)-P(1)-C(19)-C(20)	19.8(6)
C(25)-P(1)-C(19)-C(24)	-40.0(6)

C(13)-P(1)-C(19)-C(24)	71.8(6)
Au(1)-P(1)-C(19)-C(24)	-160.3(5)
C(24)-C(19)-C(20)-C(21)	-1.9(9)
P(1)-C(19)-C(20)-C(21)	178.1(5)
C(19)-C(20)-C(21)-C(22)	0.9(10)
C(20)-C(21)-C(22)-C(23)	-0.1(11)
C(21)-C(22)-C(23)-C(24)	0.3(11)
C(22)-C(23)-C(24)-C(19)	-1.3(11)
C(20)-C(19)-C(24)-C(23)	2.1(10)
P(1)-C(19)-C(24)-C(23)	-177.9(5)
C(19)-P(1)-C(25)-C(26)	-58.9(6)
C(13)-P(1)-C(25)-C(26)	-171.8(5)
Au(1)-P(1)-C(25)-C(26)	64.9(6)
C(19)-P(1)-C(25)-C(30)	130.4(7)
C(13)-P(1)-C(25)-C(30)	17.5(7)
Au(1)-P(1)-C(25)-C(30)	-105.7(6)
C(30)-C(25)-C(26)-C(27)	-3.6(11)
P(1)-C(25)-C(26)-C(27)	-174.7(6)
C(25)-C(26)-C(27)-C(28)	0.2(12)
C(26)-C(27)-C(28)-C(29)	3.2(13)
C(27)-C(28)-C(29)-C(30)	-3.2(15)
C(28)-C(29)-C(30)-C(25)	-0.3(15)
C(26)-C(25)-C(30)-C(29)	3.6(13)
P(1)-C(25)-C(30)-C(29)	174.4(7)

Symmetry transformations used to generate equivalent atoms:

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

Table 8. Anisotropic displacement parameters ($Å^2 x 10^3$) for 6.
The anisotropic displacement factor exponent takes the form: $-2\pi^2[h^2 a^{*2}U^{11} + ... + 2 h k a^* b^* U^{12}]$

	U^{11}	U^{22}	U^{33}	U^{23}	U^{13}	U^{12}
Au(1)	27(1)	30(1)	27(1)	-15(1)	-4(1)	-12(1)
Cu(1)	29(1)	27(1)	28(1)	-13(1)	-4(1)	-9(1)
Fe(1)	25(1)	30(1)	23(1)	-12(1)	-3(1)	-11(1)
Cl(1)	30(1)	45(1)	47(1)	-31(1)	-11(1)	-4(1)
P(1)	29(1)	32(1)	26(1)	-13(1)	-3(1)	-16(1)
C(1)	27(3)	40(4)	23(3)	-17(3)	-1(2)	-15(3)
C(2)	29(3)	26(3)	22(3)	-8(2)	0(2)	-12(3)
C(3)	28(3)	35(4)	23(3)	-11(3)	-1(2)	-16(3)
C(4)	31(3)	38(4)	30(3)	-17(3)	0(3)	-11(3)
C(5)	22(3)	50(5)	37(4)	-16(3)	0(3)	-11(3)
C(6)	35(4)	54(5)	32(3)	-11(3)	-4(3)	-29(3)
C(7)	33(4)	36(4)	30(3)	-9(3)	-4(3)	-21(3)
C(8)	37(4)	64(5)	30(3)	-6(3)	-4(3)	-31(4)
C(9)	64(5)	32(4)	34(4)	-12(3)	1(3)	-22(4)
C(10)	34(4)	34(4)	30(3)	-5(3)	-5(3)	-9(3)
C(11)	49(4)	39(4)	23(3)	-14(3)	-3(3)	-16(3)
C(12)	40(4)	37(4)	29(3)	-13(3)	8(3)	-2(3)
C(13)	35(3)	24(3)	27(3)	-11(3)	-3(2)	-16(3)
C(14)	36(4)	53(5)	36(4)	-22(3)	-2(3)	-24(3)
C(15)	54(5)	51(5)	34(4)	-15(4)	-9(3)	-24(4)
C(16)	58(5)	35(4)	30(3)	-10(3)	1(3)	-22(4)
C(17)	48(5)	47(5)	35(4)	-11(3)	8(3)	-26(4)
C(18)	38(4)	37(4)	37(4)	-10(3)	0(3)	-19(3)
C(19)	28(3)	32(3)	24(3)	-11(3)	1(2)	-16(3)
C(20)	38(4)	33(4)	26(3)	-10(3)	-4(3)	-17(3)
C(21)	36(4)	36(4)	35(4)	-13(3)	-1(3)	-14(3)
C(22)	31(4)	41(4)	41(4)	-13(3)	4(3)	-16(3)
C(23)	35(4)	38(4)	47(4)	-11(3)	-4(3)	-23(3)
C(24)	40(4)	35(4)	38(4)	-14(3)	-4(3)	-20(3)
C(25)	33(4)	34(4)	30(3)	-8(3)	-5(3)	-20(3)
C(26)	40(4)	42(4)	34(4)	-11(3)	-3(3)	-20(3)
C(27)	47(5)	48(5)	43(4)	-5(4)	-4(3)	-30(4)
C(28)	74(6)	36(4)	65(6)	-11(4)	-1(5)	-33(4)

C(29)	101(8)	45(5)	66(6)	-29(5)	8(5)	-34(5)
C(30)	85(7)	40(4)	41(4)	-18(4)	6(4)	-34(4)
C(31)	207(15)	158(13)	30(5)	10(6)	-18(7)	-157(12)
Cl(2)	91(2)	113(2)	85(2)	-58(2)	19(2)	-54(2)
Cl(3)	115(3)	144(4)	90(2)	-29(2)	-46(2)	-47(2)

Least-squares planes (x,y,z in crystal coordinates) and deviations from them
(* indicates atom used to define plane)

- 3.8754 (0.0249) x - 7.3906 (0.0208) y + 6.7705 (0.0313) z = 3.0771 (0.0423)

* 0.0069 (0.0022) C1
* -0.0084 (0.0035) C2
* -0.0067 (0.0021) Cu1
* 0.0114 (0.0041) Cl1
* -0.0107 (0.0036) C1_$1
* 0.0046 (0.0021) C2_$1
* 0.0030 (0.0020) Cu1_$1
-0.0151 (0.0055) Cl1_$1

Rms deviation of fitted atoms = 0.0079

- 3.9274 (0.0104) x - 7.4615 (0.0084) y + 6.6667 (0.0128) z = 2.9360 (0.0170)

Angle to previous plane (with approximate esd) = 0.49 (0.35)

* 0.0000 (0.0000) Cu1
* 0.0000 (0.0000) Cl1
* 0.0000 (0.0000) Cu1_$1
* 0.0000 (0.0000) Cl1_$1

Rms deviation of fitted atoms = 0.0000

- 3.7822 (0.0630) x - 7.2916 (0.0507) y + 6.9164 (0.0753) z = 3.2615 (0.0996)

Angle to previous plane (with approximate esd) = 1.22 (0.79)

* 0.0000 (0.0000) C1

* 0.0000 (0.0000) C2

* 0.0000 (0.0000) Cu1

Rms deviation of fitted atoms = 0.0000

- 3.7465 (0.0320) x - 2.9860 (0.0389) y + 11.0173 (0.0310) z = 8.3154 (0.0523)

Angle to previous plane (with approximate esd) = 25.03 (0.66)

* -0.0024 (0.0040) C3

* 0.0008 (0.0042) C4

* 0.0011 (0.0044) C5

* -0.0026 (0.0043) C6

* 0.0031 (0.0041) C7

1.6475 (0.0029) Fe1

-0.0459 (0.0107) C2

-0.2462 (0.0141) C1

Rms deviation of fitted atoms = 0.0022

- 3.6579 (0.0333) x - 2.9791 (0.0410) y + 11.0540 (0.0326) z = 11.7027 (0.0552)

Angle to previous plane (with approximate esd) = 0.55 (0.50)

* -0.0022 (0.0045) C8

* 0.0018 (0.0045) C9

* -0.0007 (0.0044) C10

* -0.0007 (0.0043) C11

* 0.0018 (0.0044) C12

-1.6513 (0.0031) Fe1

Rms deviation of fitted atoms = 0.0016