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Preparations:

General: Owing to the moisture sensitivity of the compounds, all manipulations were carried out under an atmosphere of dry, pure nitrogen. All glassware was oven-dried and flushed with nitrogen. Extreme precautions were taken to dry the solvents. NMR: Jeol GX400 spectrometer; MS: MAT90 (FAB, 4-nitrobenzylalcohol matrix); microanalysis: in-house analyzers (AAS and combustion).

Compound **2**: The reaction of $\{[(Ph_3P)Au]_3O\}^+ PF_6^-$ (124 mg, 0.08 mmol) with $Me_3SiONHSiMe_3$ (28.5 mg, 0.16 mmol) and NEt_3 (12.2 mg, 0.12 mmol) in CH_2Cl_2 (15 mL) gave a yield of 126 mg (96.2%) of a yellow powder, m.p. 162-165°C (decomposition). Anal. calcd. for $C_{57}H_{54}NOAu_3F_6P_4Si$ (1625.44): C, 42.11; H, 3.32, N, 0.86; Au, 36.35. Found: C, 41.68; H, 3.41; N, 0.75; Au, 37.00. ^1H NMR ($CDCl_3$, 20°C): δ 7.56 - 7.34 (m, 45H, Ph); 0.51 (s, 9H, Me). $^{31}P\{^1H\}$ NMR ($CDCl_3$): δ 29.34 (s, 3P, PPh_3); 56.71 (sept, 1P, PF_6, J = 713 Hz) $^{29}Si\{^1H\}$ NMR ($CDCl_3$): δ 2.26 (s). MS: m/z 1481.4 (53.2%), [M^+(cation)].

Compound **3**: From the corresponding oxonium SbF_6^- salt (273 mg, 0.166 mmol), $Me_3SiONHSiMe_3$ (44.5 mg, 0.251 mmol) and NEt_3 (24.6 mg, 0.234 mmol); yield 258 mg (90%), colorless crystals, m.p. 160-162°C (dec.). Anal. calcd. for $C_{57}H_{54}NOAu_3F_6P_3SbSi$ (1716.22): C, 39.89; H, 3.15; N, 0.81; Au, 34.43. Found: C, 39.09; H, 3.44; N, 0.90; Au, 33.50. ^1H NMR ($CDCl_3$): δ 7.50 - 7.27 (m, 45H, Ph); 0.43 (s, 9H, Me). $^{31}P\{^1H\}$ NMR ($CDCl_3$): δ 29.38 (s). $^{29}Si\{^1H\}$ NMR ($CDCl_3$): δ 2.92 (s). MS: m/z = 1481.3 (9.2%), [M^+(cation)].

Compound **4**: From the corresponding oxonium triflate (287 mg, 0.18 mmol), $Me_3SiONHSiMe_3$ (59.4 mg, 0.332 mmol) and NEt_3 (33.9 mg, 0.33 mmol); yield 273 mg (90%), pale yellow crystals, m.p. 152-153°C (dec.). Anal. calcd. for $C_{57}H_{54}NO_4Au_3F_3P_3SSi$ (1629.54): C, 42.74; H, 3.31; N, 0.86; F, 3.49; S, 1.96; Au, 36.26. Found: C, 42.30; H, 3.40; N, 0.80; F, 3.49; S, 1.97; Au, 36.00. ^1H NMR ($CDCl_3$): δ 7.48 - 7.26 (m, 45H, Ph); 0.42 (s, 9H, Me). $^{31}P\{^1H\}$ NMR ($CDCl_3$): δ 29.03 (s). $^{29}Si\{^1H\}$ NMR ($CDCl_3$): δ 2.42 (s). MS: m/z = 1481 (33.4 %), [M^+(cation)].

The reaction of $\{[(o\text{-}Tol)_3PAu]_3O\}^+ BF_4^-$ (150 mg, 0.094 mmol), $Me_3SiONHSiMe_3$ (33.3 mg, 0.187 mmol) and NEt_3 (12.9 mg, 0.187 mmol) gave a mixture of products. The $^{31}P\{^1H\}$ NMR analysis of solutions of this mixture in $CDCl_3$ showed mainly two signals at δ 7.89 and 4.93 ppm. Crystallization gave a pure compound (δ_P 4.93 ppm) which was identified as $\{[(o\text{-}Tol)_3P]AuNEt_3\}^+ BF_4^-$ by a single crystal X-ray diffraction study. There is disorder in the crystal and the analysis was not followed up any further. The signal at δ_P 7.89 ppm (above) is probably due to the expected product, $\{[(o\text{-}Tol)_3P]Au\}_3NOSiMe_3^+ BF_4^-$, but this could not be fully characterized.

Table 1. Crystal data and structure refinement for TRIP.

Identification code	TRIP
Empirical formula	$C_{58}H_{54}Au_3F_3NO_4P_3SSi$
Formula weight	1629.98
Temperature	296(2) K
Wavelength	0.71073 Å
Crystal system	Monoclinic
Space group	$P2_1/c$
Unit cell dimensions	a = 18.0574(3) Å α = 90°
	b = 17.9319(3) Å β = 90.7161(11)°
	c = 18.2050(2) Å γ = 90°
Volume	? $Å^3$
Z	4
Density (calculated)	1.837 Mg/m^3
Absorption coefficient	7.641 mm^{-1}
F(000)	3120
Crystal size	0.35 x 0.2 x 0.15 mm
θ range for data collection	4.55 to 26.39°
Index ranges	$-18 \le h \le 17$, $-20 \le k \le 20$, $-20 \le \ell \le 20$
Reflections collected	21649
Independent reflections	9133 (R_{int} = 0.0553)
Absorption correction	None
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	8489 / 0 / 595
Goodness-of-fit on F^2	1.074
Final R indices [$I>2\sigma(I)$]	R1 = 0.0512, wR2 = 0.1431
R indices (all data)	R1 = 0.0684, wR2 = 0.1673
Largest diff. peak and hole	3.390 and -2.013 $eÅ^{-3}$

Table 2. Atomic coordinates und equivalent isotropic displacement parameters [$Å^2$] for TRIP. U(eq) is defined as one third of the trace of the orthogonalized U_{ij}-tensor.

	x/a	y/b	z/c	U(eq)
Au(1)	0.16405(2)	0.10300(2)	0.38102(2)	0.04853(14)
Au(2)	0.34318(2)	0.10795(2)	0.37382(2)	0.04254(13)
Au(3)	0.26045(2)	-0.02996(2)	0.42619(2)	0.04749(14)
P(1)	0.0654(2)	0.1195(2)	0.3066(2)	0.0499(6)
P(2)	0.4350(2)	0.12397(14)	0.29385(14)	0.0430(6)
P(3)	0.2576(2)	-0.1526(2)	0.3985(2)	0.0496(6)
Si	0.2607(2)	0.1947(2)	0.5451(2)	0.0613(8)
O	0.2607(5)	0.1058(4)	0.5199(4)	0.058(2)
N	0.2595(5)	0.0833(4)	0.4417(4)	0.045(2)
C(1)	0.3452(13)	0.2421(10)	0.5159(12)	0.142(10)
C(2)	0.178(2)	0.240(2)	0.515(2)	0.23(2)
C(3)	0.264(2)	0.1892(11)	0.6484(9)	0.152(11)
C(111)	-0.0147(6)	0.0739(5)	0.3421(6)	0.046(2)
C(112)	-0.0742(8)	0.0507(8)	0.2967(7)	0.073(4)
C(113)	-0.1357(9)	0.0170(8)	0.3262(9)	0.082(4)
C(114)	-0.1387(10)	0.0095(9)	0.4033(10)	0.087(5)
C(115)	-0.0852(11)	0.0342(11)	0.4453(9)	0.101(6)
C(116)	-0.0208(8)	0.0679(9)	0.4162(8)	0.080(4)
C(121)	0.0416(7)	0.2171(5)	0.2969(6)	0.054(3)
C(122)	0.0952(10)	0.2686(8)	0.2872(13)	0.112(7)
C(123)	0.0827(13)	0.3416(11)	0.281(2)	0.151(10)
C(124)	0.0136(11)	0.3684(9)	0.2920(12)	0.102(6)
C(125)	-0.0398(10)	0.3209(8)	0.2982(11)	0.093(5)
C(126)	-0.0274(9)	0.2433(7)	0.3034(9)	0.080(4)
C(131)	0.0803(7)	0.0815(6)	0.2138(6)	0.053(3)
C(132)	0.1329(9)	0.0262(7)	0.2047(8)	0.075(4)
C(133)	0.1432(11)	-0.0054(9)	0.1385(11)	0.096(5)
C(134)	0.1029(11)	0.0179(9)	0.0779(10)	0.093(5)
C(135)	0.0480(12)	0.0711(11)	0.0838(8)	0.104(6)
C(136)	0.0402(11)	0.1056(8)	0.1537(8)	0.088(5)
C(211)	0.4163(6)	0.0802(5)	0.2041(5)	0.044(2)
C(212)	0.3448(8)	0.0854(7)	0.1743(6)	0.065(3)
C(213)	0.3304(9)	0.0585(9)	0.1043(8)	0.082(4)
C(214)	0.3866(10)	0.0237(8)	0.0642(7)	0.081(4)
C(215)	0.4574(10)	0.0180(7)	0.0946(7)	0.082(5)
C(216)	0.4722(7)	0.0449(6)	0.1653(6)	0.054(3)
C(221)	0.5196(7)	0.0833(6)	0.3278(6)	0.052(3)
C(222)	0.5146(8)	0.0269(6)	0.3826(6)	0.063(3)
C(223)	0.5788(11)	-0.0067(8)	0.4084(8)	0.079(4)
C(224)	0.6452(12)	0.0142(10)	0.3823(10)	0.094(5)
C(225)	0.6508(10)	0.0685(10)	0.3302(10)	0.094(5)
C(226)	0.5881(9)	0.1038(7)	0.3027(7)	0.071(4)
C(231)	0.4541(7)	0.2204(5)	0.2717(5)	0.051(3)
C(232)	0.4327(9)	0.2775(7)	0.3216(7)	0.078(4)
C(233)	0.4474(10)	0.3485(7)	0.3067(8)	0.084(4)
C(234)	0.4808(10)	0.3676(8)	0.2413(9)	0.088(5)
C(235)	0.4999(10)	0.3165(8)	0.1901(9)	0.093(5)
C(236)	0.4876(9)	0.2427(7)	0.2069(7)	0.076(4)
C(311)	0.3300(6)	-0.2073(6)	0.4395(6)	0.049(2)
C(312)	0.3408(8)	-0.2822(6)	0.4203(6)	0.061(3)
C(313)	0.3972(8)	-0.3234(7)	0.4493(7)	0.068(3)
C(314)	0.4434(9)	-0.2900(8)	0.5012(8)	0.081(4)
C(315)	0.4353(10)	-0.2158(9)	0.5191(8)	0.091(5)
C(316)	0.3801(9)	-0.1765(7)	0.4906(7)	0.077(4)
C(321)	0.1693(8)	-0.1935(6)	0.4256(6)	0.061(3)
C(322)	0.1665(10)	-0.2530(9)	0.4751(10)	0.099(5)
C(323)	0.1015(14)	-0.2816(13)	0.4974(14)	0.131(8)
C(324)	0.0391(14)	-0.2480(12)	0.4721(13)	0.118(7)
C(325)	0.0408(11)	-0.1887(13)	0.4200(14)	0.127(7)
C(326)	0.1090(11)	-0.1615(11)	0.3971(10)	0.102(5)
C(331)	0.2628(8)	-0.1705(6)	0.3002(6)	0.059(3)
C(332)	0.2324(8)	-0.2327(8)	0.2670(7)	0.073(4)
C(333)	0.2479(10)	-0.2450(10)	0.1902(8)	0.090(5)
C(334)	0.2886(13)	-0.1971(12)	0.1516(8)	0.106(6)
C(335)	0.3194(12)	-0.1381(12)	0.1838(9)	0.105(6)
C(336)	0.3059(10)	-0.1225(8)	0.2571(8)	0.082(4)
S	0.2221	-0.4591	0.3874	0.150
O(1)	0.2335	-0.4380	0.4656	0.180
O(2)	0.1384	-0.4953	0.3844	0.180
O(3)	0.2334	-0.4085	0.3272	0.180
C	0.2724	-0.5341	0.3698	0.150
F(1)	0.3461	-0.4951	0.3733	0.180
F(2)	0.2564	-0.5566	0.2975	0.180
F(3)	0.2723	-0.5896	0.4155	0.180

Table 3. Bond lengths [Å] and angles [°] for TRIP.

Au(1)-N	2.074(9)	Au(1)-P(1)	2.251(3)
Au(1)-Au(3)	3.0637(7)	Au(1)-Au(2)	3.2714(8)
Au(2)-N	2.018(8)	Au(2)-P(2)	2.243(3)
Au(2)-Au(3)	3.0505(7)	Au(3)-N	2.048(8)
Au(3)-P(3)	2.253(3)	P(1)-C(111)	1.798(11)
P(1)-C(121)	1.808(10)	P(1)-C(131)	1.832(11)
P(2)-C(221)	1.805(11)	P(2)-C(231)	1.808(10)
P(2)-C(211)	1.828(10)	P(3)-C(311)	1.797(11)
P(3)-C(331)	1.807(11)	P(3)-C(321)	1.841(14)
Si-O	1.656(7)	Si-C(2)	1.80(2)
Si-C(1)	1.84(2)	Si-C(3)	1.87(2)
O-N	1.467(10)	C(1)-H(11)	0.96
C(1)-H(12)	0.96	C(1)-H(13)	0.96
C(2)-H(21)	0.96	C(2)-H(22)	0.96
C(2)-H(23)	0.96	C(3)-H(31)	0.96
C(3)-H(32)	0.96	C(3)-H(33)	0.96
C(111)-C(116)	1.35(2)	C(111)-C(112)	1.41(2)
C(112)-C(113)	1.39(2)	C(112)-H(112)	0.96
C(113)-C(114)	1.40(2)	C(113)-H(113)	0.96
C(114)-C(115)	1.30(2)	C(114)-H(114)	0.96
C(115)-C(116)	1.43(2)	C(115)-H(115)	0.96
C(116)-H(116)	0.96	C(121)-C(126)	1.35(2)
C(121)-C(122)	1.36(2)	C(122)-C(123)	1.33(2)
C(122)-H(122)	0.96	C(123)-C(124)	1.37(3)
C(123)-H(123)	0.96	C(124)-C(125)	1.30(2)
C(124)-H(124)	0.96	C(125)-C(126)	1.41(2)
C(125)-H(125)	0.96	C(126)-H(126)	0.96
C(131)-C(136)	1.37(2)	C(131)-C(132)	1.39(2)
C(132)-C(133)	1.34(2)	C(132)-H(132)	0.96
C(133)-C(134)	1.37(2)	C(133)-H(133)	0.96
C(134)-C(135)	1.39(3)	C(134)-H(134)	0.96
C(135)-C(136)	1.41(2)	C(135)-H(135)	0.96
C(136)-H(136)	0.96	C(211)-C(216)	1.39(2)
C(211)-C(212)	1.41(2)	C(212)-C(213)	1.37(2)
C(212)-H(212)	0.96	C(213)-C(214)	1.41(2)
C(213)-H(213)	0.96	C(214)-C(215)	1.40(2)
C(214)-H(214)	0.96	C(215)-C(216)	1.39(2)
C(215)-H(215)	0.96	C(216)-H(216)	0.96
C(221)-C(226)	1.38(2)	C(221)-C(222)	1.42(2)
C(222)-C(223)	1.39(2)	C(222)-H(222)	0.96
C(223)-C(224)	1.36(2)	C(223)-H(223)	0.96
C(224)-C(225)	1.36(2)	C(224)-H(224)	0.96
C(225)-C(226)	1.39(2)	C(225)-H(225)	0.96
C(226)-H(226)	0.96	C(231)-C(236)	1.39(2)
C(231)-C(232)	1.42(2)	C(232)-C(233)	1.33(2)
C(232)-H(232)	0.96	C(233)-C(234)	1.38(2)
C(233)-H(233)	0.96	C(234)-C(235)	1.35(2)
C(234)-H(234)	0.96	C(235)-C(236)	1.38(2)
C(235)-H(235)	0.96	C(236)-H(236)	0.96
C(311)-C(312)	1.401(14)	C(311)-C(316)	1.40(2)
C(312)-C(313)	1.36(2)	C(312)-H(312)	0.96
C(313)-C(314)	1.39(2)	C(313)-H(313)	0.96
C(314)-C(315)	1.37(2)	C(314)-H(314)	0.96
C(315)-C(316)	1.33(2)	C(315)-H(315)	0.96
C(316)-H(316)	0.96	C(321)-C(326)	1.34(2)
C(321)-C(322)	1.39(2)	C(322)-C(323)	1.36(2)
C(322)-H(322)	0.96	C(323)-C(324)	1.36(3)
C(323)-H(323)	0.96	C(324)-C(325)	1.42(3)
C(324)-H(324)	0.96	C(325)-C(326)	1.40(3)
C(325)-H(325)	0.96	C(326)-H(326)	0.96
C(331)-C(332)	1.38(2)	C(331)-C(336)	1.41(2)
C(332)-C(333)	1.44(2)	C(332)-H(332)	0.96
C(333)-C(334)	1.34(2)	C(333)-H(333)	0.96
C(334)-C(335)	1.33(3)	C(334)-H(334)	0.96
C(335)-C(336)	1.38(2)	C(335)-H(335)	0.96
C(336)-H(336)	0.96	S-O(3)	1.43
S-O(1)	1.47	S-O(2)	1.66
S-C	1.66	C-F(3)	1.29
C-F(2)	1.39	C-F(1)	1.51

N-Au(1)-P(1)	174.9(2)	N-Au(1)-Au(3)	41.7(2)
P(1)-Au(1)-Au(3)	135.42(7)	N-Au(1)-Au(2)	36.3(2)
P(1)-Au(1)-Au(2)	139.75(8)	Au(3)-Au(1)-Au(2)	57.46(2)
N-Au(2)-P(2)	174.4(2)	N-Au(2)-Au(3)	41.8(2)
P(2)-Au(2)-Au(3)	132.78(6)	N-Au(2)-Au(1)	37.5(2)
P(2)-Au(2)-Au(1)	141.53(7)	Au(3)-Au(2)-Au(1)	57.85(2)
N-Au(3)-P(3)	174.7(2)	N-Au(3)-Au(2)	41.0(2)
P(3)-Au(3)-Au(2)	136.94(8)	N-Au(3)-Au(1)	42.3(2)
P(3)-Au(3)-Au(1)	133.38(8)	Au(2)-Au(3)-Au(1)	64.69(2)
C(111)-P(1)-C(121)	106.1(5)	C(111)-P(1)-C(131)	106.7(5)
C(121)-P(1)-C(131)	108.0(5)	C(111)-P(1)-Au(1)	111.9(4)
C(121)-P(1)-Au(1)	111.9(4)	C(131)-P(1)-Au(1)	111.7(4)
C(221)-P(2)-C(231)	107.1(5)	C(221)-P(2)-C(211)	106.0(5)
C(231)-P(2)-C(211)	104.4(4)	C(221)-P(2)-Au(2)	111.8(4)
C(231)-P(2)-Au(2)	114.3(4)	C(211)-P(2)-Au(2)	112.5(4)
C(311)-P(3)-C(331)	105.1(5)	C(311)-P(3)-C(321)	108.3(5)
C(331)-P(3)-C(321)	104.4(6)	C(311)-P(3)-Au(3)	115.1(4)
C(331)-P(3)-Au(3)	113.0(4)	C(321)-P(3)-Au(3)	110.3(4)
O-Si-C(2)	110.8(9)	O-Si-C(1)	111.2(7)
C(2)-Si-C(1)	114(2)	O-Si-C(3)	102.9(7)
C(2)-Si-C(3)	110(2)	C(1)-Si-C(3)	106.8(12)
N-O-Si	121.8(5)	O-N-Au(2)	121.5(6)
O-N-Au(3)	113.8(5)	Au(2)-N-Au(3)	97.2(3)
O-N-Au(1)	117.6(6)	Au(2)-N-Au(1)	106.1(3)
Au(3)-N-Au(1)	96.0(4)	Si-C(1)-H(11)	110.1(8)
Si-C(1)-H(12)	109.9(5)	H(11)-C(1)-H(12)	109.5
Si-C(1)-H(13)	108.4(9)	H(11)-C(1)-H(13)	109.5
H(12)-C(1)-H(13)	109.5	Si-C(2)-H(21)	110.0(11)
Si-C(2)-H(22)	109.0(14)	H(21)-C(2)-H(22)	109.5
Si-C(2)-H(23)	109.4(8)	H(21)-C(2)-H(23)	109.5
H(22)-C(2)-H(23)	109.5	Si-C(3)-H(31)	110.7(8)
Si-C(3)-H(32)	107.6(9)	H(31)-C(3)-H(32)	109.5
Si-C(3)-H(33)	110.1(6)	H(31)-C(3)-H(33)	109.5
H(32)-C(3)-H(33)	109.5	C(116)-C(111)-C(112)	118.6(11)
C(116)-C(111)-P(1)	117.9(9)	C(112)-C(111)-P(1)	123.2(9)
C(113)-C(112)-C(111)	121.6(12)	C(113)-C(112)-H(112)	119.4(8)
C(111)-C(112)-H(112)	119.1(7)	C(112)-C(113)-C(114)	117.8(13)
C(112)-C(113)-H(113)	121.1(8)	C(114)-C(113)-H(113)	121.2(9)
C(115)-C(114)-C(113)	120.4(14)	C(115)-C(114)-H(114)	119.8(9)
C(113)-C(114)-H(114)	119.7(9)	C(114)-C(115)-C(116)	122.9(14)
C(114)-C(115)-H(115)	118.4(10)	C(116)-C(115)-H(115)	118.6(9)
C(111)-C(116)-C(115)	118.6(13)	C(111)-C(116)-H(116)	120.7(7)
C(115)-C(116)-H(116)	120.8(9)	C(126)-C(121)-C(122)	116.6(12)
C(126)-C(121)-P(1)	123.5(9)	C(122)-C(121)-P(1)	119.8(11)
C(123)-C(122)-C(121)	124(2)	C(123)-C(122)-H(122)	117.6(11)
C(121)-C(122)-H(122)	118.6(9)	C(122)-C(123)-C(124)	119(2)
C(122)-C(123)-H(123)	121.3(11)	C(124)-C(123)-H(123)	119.5(10)
C(125)-C(124)-C(123)	118(2)	C(125)-C(124)-H(124)	121.2(11)
C(123)-C(124)-H(124)	120.3(11)	C(124)-C(125)-C(126)	122(2)
C(124)-C(125)-H(125)	118.9(11)	C(126)-C(125)-H(125)	119.0(10)
C(121)-C(126)-C(125)	119.1(14)	C(121)-C(126)-H(126)	120.3(7)
C(125)-C(126)-H(126)	120.6(10)	C(136)-C(131)-C(132)	119.6(12)
C(136)-C(131)-P(1)	121.5(10)	C(132)-C(131)-P(1)	118.9(9)

C(133)-C(132)-C(131)	121(2)	C(133)-C(132)-H(132)	120.1(11)
C(131)-C(132)-H(132)	119.1(8)	C(132)-C(133)-C(134)	120(2)
C(132)-C(133)-H(133)	120.2(11)	C(134)-C(133)-H(133)	119.6(10)
C(133)-C(134)-C(135)	122(2)	C(133)-C(134)-H(134)	119.9(10)
C(135)-C(134)-H(134)	118.4(10)	C(134)-C(135)-C(136)	117(2)
C(134)-C(135)-H(135)	122.0(10)	C(136)-C(135)-H(135)	121.3(10)
C(131)-C(136)-C(135)	121(2)	C(131)-C(136)-H(136)	119.5(8)
C(135)-C(136)-H(136)	119.8(10)	C(216)-C(211)-C(212)	121.2(10)
C(216)-C(211)-P(2)	120.7(9)	C(212)-C(211)-P(2)	118.1(8)
C(213)-C(212)-C(211)	119.4(13)	C(213)-C(212)-H(212)	120.8(9)
C(211)-C(212)-H(212)	119.7(7)	C(212)-C(213)-C(214)	119.8(14)
C(212)-C(213)-H(213)	119.9(9)	C(214)-C(213)-H(213)	120.3(9)
C(215)-C(214)-C(213)	120.3(12)	C(215)-C(214)-H(214)	120.6(8)
C(213)-C(214)-H(214)	119.1(9)	C(216)-C(215)-C(214)	120.1(13)
C(216)-C(215)-H(215)	120.3(9)	C(214)-C(215)-H(215)	119.6(8)
C(215)-C(216)-C(211)	119.0(12)	C(215)-C(216)-H(216)	121.2(9)
C(211)-C(216)-H(216)	119.7(6)	C(226)-C(221)-C(222)	119.0(11)
C(226)-C(221)-P(2)	123.5(9)	C(222)-C(221)-P(2)	117.5(10)
C(223)-C(222)-C(221)	118.7(14)	C(223)-C(222)-H(222)	121.7(10)
C(221)-C(222)-H(222)	119.7(7)	C(224)-C(223)-C(222)	121(2)
C(224)-C(223)-H(223)	120.1(9)	C(222)-C(223)-H(223)	118.9(10)
C(225)-C(224)-C(223)	121(2)	C(225)-C(224)-H(224)	119.9(11)
C(223)-C(224)-H(224)	119.2(9)	C(224)-C(225)-C(226)	120(2)
C(224)-C(225)-H(225)	119.9(11)	C(226)-C(225)-H(225)	119.9(11)
C(221)-C(226)-C(225)	120.2(14)	C(221)-C(226)-H(226)	118.8(7)
C(225)-C(226)-H(226)	121.0(11)	C(236)-C(231)-C(232)	117.2(10)
C(236)-C(231)-P(2)	123.3(9)	C(232)-C(231)-P(2)	119.5(8)
C(233)-C(232)-C(231)	120.2(12)	C(233)-C(232)-H(232)	120.4(8)
C(231)-C(232)-H(232)	119.4(7)	C(232)-C(233)-C(234)	120.2(13)
C(232)-C(233)-H(233)	119.7(8)	C(234)-C(233)-H(233)	120.0(8)
C(235)-C(234)-C(233)	122.6(12)	C(235)-C(234)-H(234)	118.9(8)
C(233)-C(234)-H(234)	118.4(8)	C(234)-C(235)-C(236)	117.2(13)
C(234)-C(235)-H(235)	121.4(8)	C(236)-C(235)-H(235)	121.4(8)
C(235)-C(236)-C(231)	122.5(12)	C(235)-C(236)-H(236)	119.3(8)
C(231)-C(236)-H(236)	118.2(7)	C(312)-C(311)-C(316)	116.6(11)
C(312)-C(311)-P(3)	121.7(9)	C(316)-C(311)-P(3)	121.7(9)
C(313)-C(312)-C(311)	122.0(11)	C(313)-C(312)-H(312)	119.2(7)
C(311)-C(312)-H(312)	118.8(7)	C(312)-C(313)-C(314)	118.3(12)
C(312)-C(313)-H(313)	121.0(7)	C(314)-C(313)-H(313)	120.7(8)
C(315)-C(314)-C(313)	120.6(13)	C(315)-C(314)-H(314)	119.6(8)
C(313)-C(314)-H(314)	119.8(8)	C(316)-C(315)-C(314)	120.3(13)
C(316)-C(315)-H(315)	119.8(8)	C(314)-C(315)-H(315)	119.9(8)
C(315)-C(316)-C(311)	122.1(12)	C(315)-C(316)-H(316)	119.3(8)
C(311)-C(316)-H(316)	118.6(7)	C(326)-C(321)-C(322)	123(2)
C(326)-C(321)-P(3)	116.4(11)	C(322)-C(321)-P(3)	121.0(11)
C(323)-C(322)-C(321)	121(2)	C(323)-C(322)-H(322)	119.4(13)
C(321)-C(322)-H(322)	119.3(9)	C(322)-C(323)-C(324)	118(2)
C(322)-C(323)-H(323)	122.1(13)	C(324)-C(323)-H(323)	120.3(13)
C(323)-C(324)-C(325)	122(2)	C(323)-C(324)-H(324)	119.5(13)
C(325)-C(324)-H(324)	118.7(13)	C(326)-C(325)-C(324)	119(2)
C(326)-C(325)-H(325)	120.7(13)	C(324)-C(325)-H(325)	120.4(13)
C(321)-C(326)-C(325)	118(2)	C(321)-C(326)-H(326)	121.1(10)
C(325)-C(326)-H(326)	121.2(13)	C(332)-C(331)-C(336)	118.6(11)
C(332)-C(331)-P(3)	123.0(10)	C(336)-C(331)-P(3)	118.1(10)
C(331)-C(332)-C(333)	117.4(13)	C(331)-C(332)-H(332)	121.1(8)
C(333)-C(332)-H(332)	121.5(9)	C(334)-C(333)-C(332)	122(2)
C(334)-C(333)-H(333)	119.1(10)	C(332)-C(333)-H(333)	119.4(9)
C(335)-C(334)-C(333)	121(2)	C(335)-C(334)-H(334)	119.7(10)
C(333)-C(334)-H(334)	119.1(10)	C(334)-C(335)-C(336)	120(2)
C(334)-C(335)-H(335)	119.6(10)	C(336)-C(335)-H(335)	120.2(11)
C(335)-C(336)-C(331)	121.0(14)	C(335)-C(336)-H(336)	120.0(11)
C(331)-C(336)-H(336)	119.0(8)	O(3)-S-O(1)	123.0
O(3)-S-O(2)	111.4	O(1)-S-O(2)	104.4
O(3)-S-C	106.4	O(1)-S-C	108.6
O(2)-S-C	100.9	F(3)-C-F(2)	112.0
F(3)-C-F(1)	109.7	F(2)-C-F(1)	110.3
F(3)-C-S	119.7	F(2)-C-S	107.7
F(1)-C-S	96.4		

Symmetry transformations used to generate equivalent atoms:

Table 4. Anisotropic displacement parameters [Å^2] for TRIP.

The anisotropic displacement factor exponent takes the form:

$-2\pi^2 [(ha^*)^2 U_{11} + \ldots + 2hka^*b^* U_{12}]$

	U11	U22	U33	U23	U13	U12
Au(1)	0.0429(3)	0.0445(2)	0.0582(3)	0.0052(2)	0.0009(2)	0.0004(2)
Au(2)	0.0460(3)	0.0384(2)	0.0432(2)	0.00120(14)	0.0042(2)	-0.00148(14)
Au(3)	0.0495(3)	0.0380(2)	0.0550(3)	-0.0017(2)	0.0036(2)	-0.0009(2)
P(1)	0.046(2)	0.0451(14)	0.059(2)	0.0072(12)	-0.0004(12)	0.0015(11)
P(2)	0.047(2)	0.0393(13)	0.0428(14)	0.0011(10)	0.0036(10)	0.0010(10)
P(3)	0.056(2)	0.0381(13)	0.055(2)	-0.0031(11)	0.0032(12)	-0.0032(11)
Si	0.064(3)	0.053(2)	0.066(2)	-0.0114(14)	0.010(2)	-0.0015(14)
O	0.086(7)	0.050(4)	0.039(4)	-0.001(3)	0.011(4)	0.004(4)
N	0.056(6)	0.041(4)	0.037(4)	0.005(3)	0.006(4)	0.009(4)
C(1)	0.17(2)	0.098(13)	0.17(2)	-0.062(13)	0.09(2)	-0.073(13)
C(2)	0.21(3)	0.17(2)	0.32(4)	-0.15(3)	-0.13(3)	0.15(2)
C(3)	0.29(3)	0.101(14)	0.067(10)	-0.021(9)	0.036(14)	-0.04(2)
C(111)	0.046(7)	0.044(5)	0.050(6)	0.004(4)	0.007(4)	-0.004(4)
C(112)	0.074(11)	0.091(9)	0.053(7)	-0.007(6)	-0.002(6)	-0.008(7)
C(113)	0.060(11)	0.095(10)	0.093(11)	-0.020(8)	0.011(7)	-0.036(7)
C(114)	0.076(13)	0.081(10)	0.105(12)	0.015(8)	0.018(9)	-0.023(8)
C(115)	0.09(2)	0.15(2)	0.070(10)	0.030(10)	0.017(8)	-0.020(11)
C(116)	0.061(11)	0.100(11)	0.077(9)	0.006(8)	-0.008(7)	-0.023(7)
C(121)	0.069(9)	0.037(5)	0.056(6)	0.011(4)	0.003(5)	0.004(5)
C(122)	0.056(12)	0.050(8)	0.23(2)	0.022(10)	0.002(11)	-0.005(6)
C(123)	0.08(2)	0.085(13)	0.29(3)	0.05(2)	0.05(2)	-0.010(10)
C(124)	0.09(2)	0.056(9)	0.16(2)	0.017(9)	-0.006(11)	0.003(8)
C(125)	0.067(12)	0.056(8)	0.16(2)	0.005(8)	0.003(9)	0.013(7)
C(126)	0.060(11)	0.062(8)	0.119(12)	0.011(7)	-0.007(8)	0.006(6)
C(131)	0.052(8)	0.052(6)	0.056(7)	0.002(5)	0.004(5)	0.000(5)
C(132)	0.075(11)	0.073(9)	0.076(9)	-0.018(7)	0.007(7)	0.002(6)
C(133)	0.10(2)	0.071(9)	0.118(14)	-0.008(9)	0.028(11)	0.004(8)
C(134)	0.10(2)	0.094(12)	0.085(11)	-0.024(9)	0.019(9)	-0.007(9)
C(135)	0.13(2)	0.126(14)	0.059(9)	0.001(9)	0.003(9)	0.014(12)
C(136)	0.13(2)	0.080(10)	0.058(8)	0.002(7)	0.007(8)	0.022(8)
C(211)	0.055(7)	0.035(5)	0.042(5)	0.004(4)	0.002(4)	0.000(4)
C(212)	0.064(10)	0.080(8)	0.050(7)	0.006(6)	-0.002(5)	0.005(6)
C(213)	0.086(13)	0.090(10)	0.071(9)	0.010(7)	-0.020(8)	-0.011(8)
C(214)	0.11(2)	0.085(10)	0.048(7)	-0.010(6)	-0.011(8)	-0.013(8)
C(215)	0.13(2)	0.073(9)	0.041(7)	-0.009(6)	0.018(7)	0.003(8)
C(216)	0.057(8)	0.053(6)	0.050(6)	-0.004(5)	-0.002(5)	0.000(5)
C(221)	0.052(8)	0.052(6)	0.051(6)	-0.002(5)	-0.004(5)	0.011(5)
C(222)	0.077(10)	0.058(7)	0.056(7)	-0.005(5)	-0.003(6)	0.025(6)
C(223)	0.096(14)	0.065(8)	0.075(9)	0.001(7)	-0.023(8)	0.021(8)
C(224)	0.10(2)	0.087(11)	0.093(12)	-0.030(9)	-0.028(10)	0.030(10)
C(225)	0.066(13)	0.106(13)	0.111(13)	-0.023(11)	-0.003(9)	0.014(9)
C(226)	0.078(12)	0.077(9)	0.057(7)	0.002(6)	-0.002(6)	0.017(7)
C(231)	0.069(9)	0.039(5)	0.046(6)	0.008(4)	0.007(5)	-0.003(5)
C(232)	0.125(14)	0.057(8)	0.053(7)	0.000(5)	0.022(7)	0.008(7)
C(233)	0.13(2)	0.047(7)	0.075(9)	-0.004(6)	0.014(8)	-0.011(7)
C(234)	0.115(14)	0.051(7)	0.097(11)	0.006(7)	0.002(9)	-0.021(7)
C(235)	0.13(2)	0.068(9)	0.082(10)	0.012(8)	0.026(9)	-0.037(9)
C(236)	0.111(13)	0.064(8)	0.052(7)	0.000(6)	0.018(7)	-0.010(7)
C(311)	0.046(7)	0.047(6)	0.055(6)	0.000(4)	0.002(5)	0.000(4)
C(312)	0.081(10)	0.043(6)	0.059(7)	-0.011(5)	-0.006(6)	-0.004(5)
C(313)	0.080(11)	0.061(7)	0.064(8)	0.004(6)	0.002(6)	0.017(6)
C(314)	0.095(13)	0.075(9)	0.074(9)	-0.014(7)	-0.021(8)	0.026(8)
C(315)	0.097(14)	0.105(12)	0.069(9)	-0.026(8)	-0.029(8)	0.013(9)
C(316)	0.091(12)	0.067(8)	0.072(8)	-0.029(7)	-0.020(7)	0.016
C(321)	0.070(10)	0.057(7)	0.055(7)	-0.003(5)	0.004(5)	-0.006
C(322)	0.078(14)	0.090(11)	0.129(14)	0.041(10)	0.012(9)	-0.023
C(323)	0.09(2)	0.12(2)	0.18(2)	0.05(2)	0.010(14)	-0.029
C(324)	0.12(2)	0.100(14)	0.13(2)	-0.032(12)	0.046(14)	-0.039
C(325)	0.04(2)	0.15(2)	0.18(2)	-0.01(2)	-0.002(11)	-0.005
C(326)	0.08(2)	0.119(14)	0.104(13)	-0.010(10)	0.011(10)	-0.007
C(331)	0.077(10)	0.047(6)	0.053(6)	-0.005(5)	-0.004(5)	0.008
C(332)	0.070(10)	0.094(10)	0.054(7)	-0.005(6)	0.000(6)	-0.013
C(333)	0.097(14)	0.101(12)	0.071(9)	-0.027(8)	-0.004(8)	0.015
C(334)	0.14(2)	0.13(2)	0.051(8)	-0.004(9)	0.022(9)	0.029
C(335)	0.13(2)	0.13(2)	0.058(9)	0.012(10)	0.019(9)	-0.011
C(336)	0.099(13)	0.063(8)	0.085(10)	0.001(7)	0.013(8)	-0.014

Table 5. Hydrogen coordinates and isotropic displacement parameters [$Å^2$] for TRIP.

	x/a	y/b	z/c	U(eq)
H(11)	0.3454(13)	0.2475(10)	0.4630(12)	0.214
H(12)	0.3484(13)	0.2905(10)	0.5386(12)	0.214
H(13)	0.3864(13)	0.2124(10)	0.5314(12)	0.214
H(21)	0.176(2)	0.243(2)	0.462(2)	0.353
H(22)	0.137(2)	0.212(2)	0.532(2)	0.353
H(23)	0.176(2)	0.290(2)	0.535(2)	0.353
H(31)	0.221(2)	0.1654(11)	0.6671(9)	0.228
H(32)	0.307(2)	0.1602(11)	0.6619(9)	0.228
H(33)	0.269(2)	0.2383(11)	0.6691(9)	0.228
H(112)	-0.0722(8)	0.0594(8)	0.2443(7)	0.109
H(113)	-0.1749(9)	-0.0007(8)	0.2948(9)	0.124
H(114)	-0.1797(10)	-0.0153(9)	0.4253(10)	0.131
H(115)	-0.0902(11)	0.0310(11)	0.4981(9)	0.152
H(116)	0.0176(8)	0.0855(9)	0.4487(8)	0.119
H(122)	0.1451(10)	0.2518(8)	0.2844(13)	0.169
H(123)	0.1215(13)	0.3757(11)	0.269(2)	0.227
H(124)	0.0050(11)	0.4212(9)	0.2950(12)	0.154
H(125)	-0.0892(10)	0.3392(8)	0.2993(11)	0.139
H(126)	-0.0674(9)	0.2095(7)	0.3111(9)	0.121
H(132)	0.1617(9)	0.0106(7)	0.2468(8)	0.112
H(133)	0.1786(11)	-0.0446(9)	0.1331(11)	0.144
H(134)	0.1123(11)	-0.0031(9)	0.0300(10)	0.140
H(135)	0.0174(12)	0.0850(11)	0.0423(8)	0.155
H(136)	0.0061(11)	0.1460(8)	0.1594(8)	0.132
H(212)	0.3068(8)	0.1084(7)	0.2028(6)	0.097
H(213)	0.2822(9)	0.0636(9)	0.0830(8)	0.124
H(214)	0.3756(10)	0.0038(8)	0.0159(7)	0.122
H(215)	0.4956(10)	-0.0049(7)	0.0663(7)	0.123
H(216)	0.5199(7)	0.0397(6)	0.1877(6)	0.080
H(222)	0.4673(8)	0.0125(6)	0.4007(6)	0.095
H(223)	0.5755(11)	-0.0454(8)	0.4449(8)	0.118
H(224)	0.6886(12)	-0.0096(10)	0.4015(10)	0.141
H(225)	0.6981(10)	0.0819(10)	0.3115(10)	0.141
H(226)	0.5914(9)	0.1430(7)	0.2666(7)	0.106
H(232)	0.4089(9)	0.2641(7)	0.3669(7)	0.117
H(233)	0.4325(10)	0.3868(7)	0.3406(8)	0.126
H(234)	0.4924(10)	0.4192(8)	0.2328(9)	0.131
H(235)	0.5213(10)	0.3311(8)	0.1440(9)	0.140
H(236)	0.5013(9)	0.2049(7)	0.1720(7)	0.114
H(312)	0.3081(8)	-0.3048(6)	0.3847(6)	0.092
H(313)	0.4048(8)	-0.3742(7)	0.4344(7)	0.103
H(314)	0.4814(9)	-0.3188(8)	0.5250(8)	0.122
H(315)	0.4694(10)	-0.1925(9)	0.5529(8)	0.136
H(316)	0.3747(9)	-0.1250(7)	0.5043(7)	0.116
H(322)	0.2114(10)	-0.2752(9)	0.4927(10)	0.149
H(323)	0.0988(14)	-0.3227(13)	0.5315(14)	0.196
H(324)	-0.0077(14)	-0.2651(12)	0.4892(13)	0.177
H(325)	-0.0040(11)	-0.1680(13)	0.4004(14)	0.190
H(326)	0.1122(11)	-0.1214(11)	0.3619(10)	0.153
H(332)	0.2025(8)	-0.2666(8)	0.2946(7)	0.109
H(333)	0.2282(10)	-0.2883(10)	0.1658(8)	0.135
H(334)	0.2965(13)	-0.2064(12)	0.0999(8)	0.159
H(335)	0.3502(12)	-0.1058(12)	0.1554(9)	0.158
H(336)	0.3253(10)	-0.0778(8)	0.2792(8)	0.123