| | | | | | | |
|---|---|---|---|---|---|---|
| C(12A) | 41(6) | 40(7) | 28(5) | -11(5) | 2(5) | 3(5) |
| C(13A) | 34(6) | 67(8) | 39(6) | 3(6) | 10(5) | -13(6) |
| C(14A) | 140(20) | 73(17) | 75(17) | 18(13) | 30(14) | 33(15) |
| In(3) | 39(1) | 29(1) | 36(1) | -1(1) | -3(1) | 4(1) |
| N(1B) | 22(4) | 18(5) | 24(5) | -3(4) | -4(4) | -2(4) |
| N(2B) | 28(4) | 46(6) | 20(4) | 5(4) | 6(4) | 8(4) |
| C(1B) | 72(10) | 15(6) | 71(9) | 5(6) | -14(8) | -7(6) |
| C(2B) | 46(7) | 41(7) | 26(6) | 0(5) | -5(5) | -4(5) |
| C(3B) | 44(9) | 75(16) | 40(13) | 10(14) | -5(7) | -14(11) |
| C(4B) | 41(8) | 43(8) | 31(8) | 4(6) | -3(7) | -7(8) |
| C(5B) | 23(5) | 37(6) | 34(6) | 15(5) | 5(4) | 1(5) |
| C(6B) | 51(7) | 28(6) | 53(7) | 13(5) | 2(5) | 17(5) |
| C(8B) | 115(13) | 49(9) | 44(9) | 18(8) | -25(9) | -16(9) |
| C(9B) | 80(9) | 60(9) | 49(8) | 22(7) | -20(7) | 23(7) |
| C(10B) | 78(9) | 48(8) | 25(6) | 2(6) | -12(6) | 24(7) |
| C(11B) | 34(8) | 40(8) | 28(7) | 2(6) | 18(6) | -8(6) |
| C(12B) | 36(6) | 56(8) | 25(6) | 3(5) | 2(5) | -9(5) |
| C(13B) | 20(6) | 67(13) | 19(7) | -29(8) | 9(6) | -22(7) |
| C(14B) | 80(9) | 59(9) | 28(6) | -13(6) | 1(6) | 5(7) |
| Cl(1) | 92(3) | 49(2) | 57(2) | -14(2) | -10(2) | -8(2) |
| C(100) | 72(8) | 33(7) | 57(8) | -17(6) | 2(7) | -11(6) |
| C(101) | 99(11) | 46(8) | 45(8) | -3(6) | 20(8) | -2(7) |
| C(102) | 102(12) | 57(10) | 49(8) | -5(7) | 2(9) | 23(9) |
| C(103) | 137(16) | 67(11) | 41(9) | 11(8) | -11(10) | 28(10) |
| Cl(2) | 50(2) | 70(2) | 82(3) | 18(2) | -8(2) | -19(2) |
| C(200) | 19(5) | 95(10) | 40(7) | 5(7) | -3(5) | -7(6) |
| C(201) | 34(7) | 98(11) | 50(8) | -11(7) | -1(6) | -5(7) |
| C(202) | 34(7) | 142(16) | 55(9) | 20(10) | 18(7) | 30(9) |
| C(203) | 67(10) | 79(13) | 57(10) | -6(9) | -6(8) | 17(9) |
| C(204) | 75(10) | 67(11) | 94(12) | -24(10) | 26(9) | -8(9) |
| C(205) | 86(12) | 38(9) | 46(9) | -1(7) | 24(9) | -15(8) |
| Cl(3) | 60(2) | 56(2) | 116(3) | -11(2) | 15(2) | 5(2) |
| C(300) | 30(6) | 51(7) | 53(7) | -13(6) | 2(5) | -12(5) |
| C(301) | 75(9) | 91(12) | 45(8) | -23(8) | 27(7) | -44(9) |
| C(302) | 82(10) | 72(10) | 62(9) | 12(8) | -11(7) | -39(8) |
| C(303) | 64(8) | 41(8) | 90(10) | 1(8) | -22(8) | -24(6) |

| | | | | | | |
|---|---|---|---|---|---|---|
| C(304) | 61(10) | 60(10) | 44(8) | -13(7) | -10(8) | -9(8) |
| C(305) | 36(6) | 50(7) | 36(6) | 1(6) | -6(5) | -11(5) |
| Cl(4) | 55(2) | 58(3) | 124(4) | -18(2) | -15(2) | 10(2) |
| C(400) | 45(7) | 28(6) | 66(8) | -8(6) | 8(6) | -6(5) |
| C(401) | 53(7) | 36(7) | 63(8) | -8(6) | -6(6) | -3(6) |
| C(402) | 59(8) | 51(9) | 55(9) | -23(7) | 13(7) | -2(7) |
| C(403) | 49(8) | 58(9) | 107(12) | -27(8) | -18(8) | -3(7) |
| C(404) | 110(12) | 50(9) | 60(9) | 4(7) | -8(8) | -14(9) |
| C(405) | 63(8) | 57(9) | 56(8) | -1(7) | 31(7) | 4(7) |
| B(2) | 34(3) | 24(3) | 25(3) | -2(2) | -6(2) | 1(3) |
| F(16A) | 45(2) | 47(2) | 34(2) | 14(1) | -4(1) | -6(1) |
| F(17A) | 69(2) | 40(2) | 47(2) | 10(2) | 10(2) | -11(2) |
| F(18A) | 47(2) | 46(2) | 73(2) | -6(2) | 9(2) | -21(2) |
| F(19A) | 42(2) | 56(2) | 71(2) | 1(2) | -20(2) | -15(2) |
| F(20A) | 42(2) | 38(2) | 48(2) | 6(1) | -20(1) | -4(1) |
| F(22A) | 56(2) | 29(2) | 38(2) | -9(1) | 2(1) | -7(1) |
| F(23A) | 70(2) | 41(2) | 27(2) | -9(1) | 4(1) | 10(2) |
| F(24A) | 38(2) | 61(2) | 36(2) | 10(2) | 9(1) | 10(2) |
| F(25A) | 44(2) | 43(2) | 56(2) | 7(2) | 5(1) | -12(2) |
| F(26A) | 46(2) | 32(2) | 40(2) | -8(1) | 3(1) | -9(1) |
| F(28A) | 46(2) | 57(2) | 38(2) | 2(2) | 7(1) | 2(2) |
| F(29A) | 65(2) | 82(3) | 78(2) | -9(2) | 41(2) | 2(2) |
| F(30A) | 54(2) | 49(2) | 138(3) | -3(2) | 44(2) | 14(2) |
| F(31A) | 56(2) | 50(2) | 101(3) | 16(2) | 5(2) | 21(2) |
| F(32A) | 51(2) | 40(2) | 45(2) | 6(2) | -4(2) | 12(1) |
| F(34A) | 41(2) | 51(2) | 45(2) | -17(2) | -5(1) | -7(2) |
| F(35A) | 51(2) | 95(3) | 45(2) | -13(2) | -16(2) | -20(2) |
| F(36A) | 32(2) | 108(3) | 63(2) | 24(2) | -14(2) | -1(2) |
| F(37A) | 41(2) | 61(2) | 73(2) | 19(2) | 5(2) | 17(2) |
| F(38A) | 45(2) | 32(2) | 45(2) | 0(1) | 0(1) | 6(1) |
| C(15A) | 30(3) | 26(3) | 27(3) | -4(2) | 3(2) | -2(2) |
| C(16A) | 29(3) | 36(3) | 27(3) | -6(2) | 1(2) | 2(2) |
| C(17A) | 50(3) | 28(3) | 34(3) | 5(2) | 11(3) | -1(3) |
| C(18A) | 33(3) | 33(3) | 46(3) | -8(3) | 8(3) | -8(2) |
| C(19A) | 34(3) | 42(3) | 38(3) | -9(3) | -10(2) | -4(2) |
| C(20A) | 31(3) | 25(3) | 36(3) | 0(2) | -3(2) | -1(2) |

| | | | | | | |
|---|---|---|---|---|---|---|
| C(21A) | 26(2) | 23(3) | 30(3) | 2(2) | -6(2) | 2(2) |
| C(22A) | 33(3) | 23(3) | 31(3) | 0(2) | -3(2) | -2(2) |
| C(23A) | 38(3) | 25(3) | 29(3) | -4(2) | -8(2) | 9(2) |
| C(24A) | 27(3) | 41(3) | 27(3) | 7(2) | -1(2) | 14(2) |
| C(25A) | 28(3) | 25(3) | 39(3) | 5(2) | -5(2) | -2(2) |
| C(26A) | 33(3) | 24(3) | 26(3) | -1(2) | -1(2) | 2(2) |
| C(27A) | 27(3) | 26(3) | 37(3) | -10(2) | -6(2) | -6(2) |
| C(28A) | 27(3) | 40(3) | 39(3) | -5(3) | 4(2) | -2(2) |
| C(29A) | 42(3) | 51(4) | 58(4) | -15(3) | 30(3) | -12(3) |
| C(30A) | 33(3) | 33(3) | 86(5) | -9(3) | 21(3) | 6(2) |
| C(31A) | 36(3) | 26(3) | 78(4) | 5(3) | 1(3) | 3(2) |
| C(32A) | 36(3) | 27(3) | 44(3) | -7(3) | -1(2) | -6(2) |
| C(33A) | 24(2) | 35(3) | 27(3) | 7(2) | 2(2) | -4(2) |
| C(34A) | 33(3) | 38(3) | 28(3) | -3(2) | 1(2) | 0(2) |
| C(35A) | 34(3) | 67(4) | 26(3) | -4(3) | -5(2) | -15(3) |
| C(36A) | 26(3) | 74(4) | 37(3) | 16(3) | -5(2) | -4(3) |
| C(37A) | 33(3) | 42(3) | 44(3) | 12(3) | 6(3) | 4(3) |
| C(38A) | 28(3) | 34(3) | 27(3) | 4(2) | -2(2) | -5(2) |
| B(1) | 27(3) | 19(3) | 28(3) | 3(2) | -9(2) | 2(2) |
| F(16) | 41(2) | 30(2) | 38(2) | -6(1) | -3(1) | -8(1) |
| F(17) | 46(2) | 42(2) | 48(2) | 6(2) | 0(1) | -18(1) |
| F(18) | 38(2) | 55(2) | 40(2) | 8(2) | 10(1) | 2(1) |
| F(19) | 44(2) | 42(2) | 35(2) | -9(1) | 6(1) | 8(1) |
| F(20) | 38(2) | 27(2) | 33(2) | -7(1) | -1(1) | -3(1) |
| F(22) | 48(2) | 37(2) | 32(2) | 2(1) | -3(1) | 11(1) |
| F(23) | 65(2) | 40(2) | 56(2) | -2(2) | -12(2) | 24(2) |
| F(24) | 40(2) | 59(2) | 68(2) | -25(2) | 2(2) | 16(2) |
| F(25) | 42(2) | 77(2) | 47(2) | -10(2) | 14(2) | -1(2) |
| F(26) | 39(2) | 44(2) | 37(2) | 5(1) | 4(1) | 0(1) |
| F(28) | 39(2) | 33(2) | 43(2) | -7(1) | -9(1) | 4(1) |
| F(29) | 39(2) | 46(2) | 63(2) | 6(2) | -3(2) | 16(1) |
| F(30) | 36(2) | 79(2) | 62(2) | 6(2) | -22(2) | 11(2) |
| F(31) | 45(2) | 81(3) | 44(2) | -15(2) | -20(2) | -1(2) |
| F(32) | 38(2) | 42(2) | 37(2) | -11(1) | -8(1) | 3(1) |
| F(34) | 34(2) | 36(2) | 37(2) | 10(1) | -10(1) | -2(1) |
| F(35) | 31(2) | 54(2) | 50(2) | 3(2) | -12(1) | -6(1) |

| | | | | | | |
|---|---|---|---|---|---|---|
| F(36) | 36(2) | 39(2) | 59(2) | -3(2) | 1(1) | -15(1) |
| F(37) | 47(2) | 35(2) | 53(2) | 14(2) | -3(1) | -9(1) |
| F(38) | 39(2) | 40(2) | 37(2) | 14(1) | -13(1) | -6(1) |
| C(15) | 22(2) | 20(3) | 30(3) | 5(2) | -4(2) | 1(2) |
| C(16) | 30(3) | 28(3) | 23(2) | -3(2) | -6(2) | 5(2) |
| C(17) | 29(3) | 24(3) | 36(3) | 10(2) | -6(2) | -5(2) |
| C(18) | 26(2) | 34(3) | 26(3) | 8(2) | 2(2) | 5(2) |
| C(19) | 27(2) | 27(3) | 30(3) | -5(2) | -4(2) | 8(2) |
| C(20) | 26(2) | 16(3) | 30(3) | -2(2) | -2(2) | 1(2) |
| C(21) | 23(2) | 30(3) | 24(2) | -8(2) | -5(2) | -5(2) |
| C(22) | 34(3) | 29(3) | 30(3) | -6(2) | -7(2) | 2(2) |
| C(23) | 37(3) | 29(3) | 38(3) | -7(2) | -8(2) | 5(2) |
| C(24) | 26(3) | 44(3) | 49(3) | -21(3) | -2(2) | 4(2) |
| C(25) | 24(3) | 46(3) | 34(3) | -12(3) | 4(2) | -1(2) |
| C(26) | 28(3) | 31(3) | 36(3) | -3(2) | -1(2) | -7(2) |
| C(27) | 30(3) | 26(3) | 20(2) | 3(2) | 4(2) | 0(2) |
| C(28) | 30(3) | 31(3) | 28(3) | -1(2) | -3(2) | -4(2) |
| C(29) | 29(3) | 34(3) | 39(3) | 7(3) | 1(2) | 4(2) |
| C(30) | 25(3) | 51(4) | 41(3) | 13(3) | -10(2) | 5(2) |
| C(31) | 33(3) | 49(3) | 28(3) | 0(3) | -11(2) | -9(3) |
| C(32) | 30(3) | 33(3) | 31(3) | 2(2) | 6(2) | 1(2) |
| C(33) | 23(2) | 25(3) | 24(2) | -3(2) | -1(2) | 2(2) |
| C(34) | 24(2) | 23(3) | 29(3) | 2(2) | 2(2) | -1(2) |
| C(35) | 22(2) | 36(3) | 27(3) | -3(2) | -3(2) | 4(2) |
| C(36) | 27(3) | 35(3) | 38(3) | -11(2) | 2(2) | -12(2) |
| C(37) | 33(3) | 31(3) | 30(3) | -1(2) | -1(2) | -2(2) |
| C(38) | 24(2) | 32(3) | 28(3) | 0(2) | -4(2) | 4(2) |

Table 4. Hydrogen coordinates ( x $10^4$) and isotropic displacement parameters ($Å^2$x $10^3$) for **6.$C_6H_5Cl$.**

| | x | y | z | U(eq) |
|---|---|---|---|---|
| H(1A) | 2924 | 8384 | 1863 | 94 |
| H(1B) | 2131 | 7763 | 1790 | 94 |
| H(1C) | 2895 | 7028 | 1742 | 94 |
| H(2) | 4395 | 7051 | 2787 | 51 |
| H(3A) | 4383 | 4871 | 2765 | 74 |
| H(3B) | 5089 | 5409 | 2598 | 74 |
| H(3C) | 4367 | 4939 | 2421 | 74 |
| H(4A) | 4182 | 6977 | 2172 | 109 |
| H(4B) | 4929 | 7461 | 2330 | 109 |
| H(4C) | 4154 | 8188 | 2360 | 109 |
| H(6) | 3968 | 6090 | 3116 | 57 |
| H(7) | 3681 | 5477 | 3548 | 76 |
| H(8) | 2557 | 5084 | 3743 | 78 |
| H(9) | 1444 | 5271 | 3518 | 64 |
| H(10) | 1177 | 5813 | 3075 | 56 |
| H(12) | 765 | 6902 | 2757 | 54 |
| H(13A) | 793 | 4920 | 2355 | 92 |
| H(13B) | 67 | 5357 | 2527 | 92 |
| H(13C) | 760 | 4749 | 2697 | 92 |
| H(14A) | 1064 | 8141 | 2356 | 126 |
| H(14B) | 245 | 7545 | 2330 | 126 |
| H(14C) | 927 | 6997 | 2150 | 126 |
| H(1A1) | 4942 | -3844 | 5386 | 73 |
| H(1A2) | 4745 | -2951 | 5646 | 73 |
| H(1A3) | 5040 | -2413 | 5348 | 73 |
| H(2A) | 1848 | -4077 | 5708 | 40 |
| H(3A1) | 2316 | -1704 | 5896 | 68 |
| H(3A2) | 1762 | -2576 | 6069 | 68 |
| H(3A3) | 1494 | -1993 | 5769 | 68 |
| H(4A1) | 3151 | -4613 | 5776 | 57 |

| | | | | |
|---|---|---|---|---|
| H(4A2) | 2780 | -4205 | 6073 | 57 |
| H(4A3) | 3315 | -3291 | 5903 | 57 |
| H(6A) | 1030 | -3192 | 5453 | 58 |
| H(7A) | 23 | -2942 | 5189 | 39 |
| H(8A) | -118 | -2444 | 4723 | 56 |
| H(9A) | 837 | -2090 | 4424 | 66 |
| H(10A) | 2046 | -2123 | 4493 | 49 |
| H(12A) | 3168 | -1445 | 4524 | 43 |
| H(13D) | 4297 | -1307 | 4804 | 70 |
| H(13E) | 4506 | -1866 | 4497 | 70 |
| H(13F) | 4439 | -2731 | 4772 | 70 |
| H(14D) | 3530 | -3991 | 4471 | 141 |
| H(14E) | 3539 | -3048 | 4210 | 141 |
| H(14F) | 2759 | -3411 | 4355 | 141 |
| H(1B1) | 2980 | -6958 | 5162 | 79 |
| H(1B2) | 3309 | -6535 | 5468 | 79 |
| H(1B3) | 3830 | -6491 | 5190 | 79 |
| H(2B) | 2932 | -1966 | 5761 | 45 |
| H(3B1) | 1592 | -2230 | 5764 | 80 |
| H(3B2) | 1963 | -2713 | 6058 | 80 |
| H(3B3) | 1703 | -3652 | 5814 | 80 |
| H(4B1) | 3015 | -4566 | 5804 | 57 |
| H(4B2) | 3325 | -3636 | 6042 | 57 |
| H(4B3) | 3726 | -3728 | 5736 | 57 |
| H(6B) | 2290 | -797 | 5539 | 53 |
| H(7B) | 1922 | 884 | 5336 | 49 |
| H(8B) | 1730 | 1385 | 4876 | 83 |
| H(9B) | 1891 | 157 | 4501 | 75 |
| H(10B) | 2251 | -1723 | 4475 | 60 |
| H(12B) | 2212 | -3588 | 4402 | 47 |
| H(13G) | 3419 | -2503 | 4384 | 53 |
| H(13H) | 3344 | -3556 | 4148 | 53 |
| H(13I) | 3832 | -3774 | 4436 | 53 |
| H(14G) | 3199 | -5537 | 4578 | 84 |
| H(14H) | 2662 | -5545 | 4299 | 84 |
| H(14I) | 2305 | -5608 | 4614 | 84 |

| | | | | |
|---|---|---|---|---|
| H(101) | 3436 | 774 | 4806 | 76 |
| H(102) | 2355 | 1423 | 4541 | 83 |
| H(103) | 1178 | 1189 | 4733 | 98 |
| H(104) | 1107 | 437 | 5232 | 100 |
| H(105) | 1974 | -87 | 5445 | 99 |
| H(201) | 833 | -4552 | 4576 | 73 |
| H(202) | 359 | -2704 | 4410 | 92 |
| H(203) | 10 | -1157 | 4717 | 81 |
| H(204) | 248 | -1325 | 5221 | 94 |
| H(205) | 707 | -3430 | 5419 | 68 |
| H(301) | 4570 | -1898 | 4709 | 84 |
| H(302) | 4229 | 185 | 4682 | 87 |
| H(303) | 3925 | 1280 | 5111 | 79 |
| H(304) | 3963 | 273 | 5547 | 66 |
| H(305) | 4423 | -1752 | 5594 | 49 |
| H(401) | 2152 | -6020 | 5335 | 61 |
| H(402) | 975 | -5921 | 5091 | 66 |
| H(403) | 914 | -6050 | 4580 | 86 |
| H(404) | 2046 | -6193 | 4336 | 88 |
| H(405) | 3183 | -6310 | 4570 | 70 |

VI. X-ray Crystallographic Analysis of ($^i$Pr$_2$-ATI)In($C_6F_5$)$_2$ (**9**).

## Crystallographic Experimental Section

### *Data Collection*

A yellow crysttal with approximate dimensions 0.45 x 0.43 x 0.27 mm$^3$ was selected under oil under ambient conditions and attached to the tip of a glass capillary. The crystal was mounted in a stream of cold nitrogen at 173(2) K and centered in the X-ray beam by using a video camera.

The crystal evaluation and data collection were performed on a Bruker CCD-1000 diffractometer with Mo $K_\alpha$ ($\lambda$ = 0.71073 Å) radiation and the diffractometer to crystal distance of 5.08 cm.

The initial cell constants were obtained from three series of $\omega$ scans at different starting angles. Each series consisted of 20 frames collected at intervals of 0.3° in a 6° range about $\omega$ with the exposure time of 10 seconds per frame. A total of 172 reflections was obtained. The reflections were successfully indexed by an automated indexing routine built in the SMART program. The final cell constants were calculated from a set of 8166 strong reflections from the actual data collection.

The data were collected by using the hemisphere data collection routine. The reciprocal space was surveyed to the extent of 1.8 hemisphere to a resolution of 0.80 Å. A total of 11469 data were harvested by collecting two sets of frames with 0.3° scans in $\omega$ with an exposure time 10 sec per frame. These highly redundant datasets were corrected for Lorentz and polarization effects. The absorption correction was based on fitting a function to the empirical transmission surface as sampled by multiple equivalent measurements. [1]

### *Structure Solution and Refinement*

The systematic absences in the diffraction data were consistent for space groups *Pnma* and *Pna*2$_1$ but only the latter, non-centrosymmetric space group *Pna*2$_1$ yielded chemically reasonable and computationally stable results of refinement [2]. A successful solution by the direct methods provided most non-hydrogen atoms from the *E*-map. The remaining non-hydrogen atoms were located in an alternating series of least-squares

cycles and difference Fourier maps. All non-hydrogen atoms were refined with anisotropic displacement coefficients. All hydrogen atoms were included in the structure factor calculation at idealized positions and were allowed to ride on the neighboring atoms with relative isotropic displacement coefficients. The final least-squares refinement of 347 parameters against 4577 data resulted in residuals $R$ (based on $F^2$ for $I \geq 2\sigma$) and $wR$ (based on $F^2$ for all data) of 0.0169 and 0.0376, respectively. The final difference Fourier map was featureless.

The ORTEP diagrams were drawn with 30% probability ellipsoids.

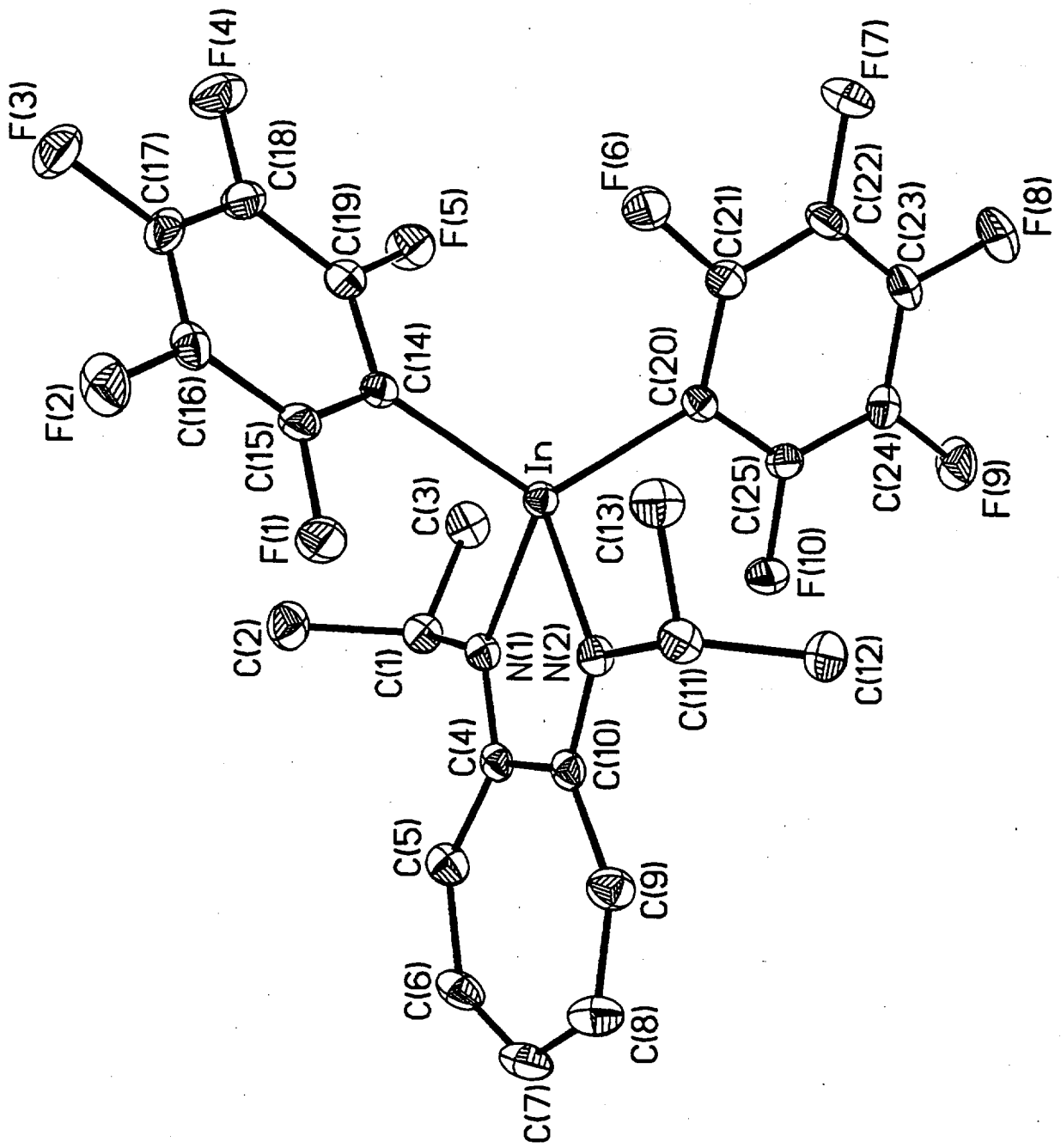
***References***

[1] Blessing, R.H. *Acta Cryst.* **1995**, *A51*, 33-38.

[2] All software and sources of the scattering factors are contained in the SHELXTL (version 5.1) program library (G. Sheldrick, Bruker Analytical X-Ray Systems, Madison, WI).

Crystal data and structure refinement for **9**

| | | |
|---|---|---|
| Identification code | jor26 | |
| Empirical formula | $C_{25}H_{19}F_{10}InN_2$ | |
| Formula weight | 652.24 | |
| Temperature | 173(2) K | |
| Wavelength | 0.71073 Å | |
| Crystal system | Orthorhombic | |
| Space group | $Pna2_1$ | |
| Unit cell dimensions | a = 16.3299(10) Å | α= 90° |
| | b = 17.6995(11) Å | β= 90° |
| | c = 8.5897(5) Å | γ = 90° |
| Volume | 2482.7(3) Å | |
| Z | 4 | |
| Density (calculated) | 1.745 $Mg/m^3$ | |
| Absorption coefficient | 1.045 $mm^{-1}$ | |
| F(000) | 1288 | |
| Crystal size | 0.45 x 0.43 x 0.27 $mm^3$ | |
| Theta range for data collection | 1.70 to 26.37°. | |
| Index ranges | -19<=h<=20, -13<=k<=22, -10<=l<=10 | |
| Reflections collected | 11469 | |
| Independent reflections | 4577 [R(int) = 0.0176] | |
| Completeness to theta = 26.37° | 99.8 % | |
| Absorption correction | Empirical with SADABS | |
| Max. and min. transmission | 0.7657 and 0.6507 | |
| Refinement method | Full-matrix least-squares on $F^2$ | |
| Data / restraints / parameters | 4577 / 1 / 347 | |
| Goodness-of-fit on $F^2$ | 0.988 | |
| Final R indices [I>2sigma(I)] | R1 = 0.0169, wR2 = 0.0376 | |
| R indices (all data) | R1 = 0.0199, wR2 = 0.0384 | |
| Absolute structure parameter | 0.005(12) | |
| Largest diff. peak and hole | 0.242 and -0.357 $e.Å^{-3}$ | |



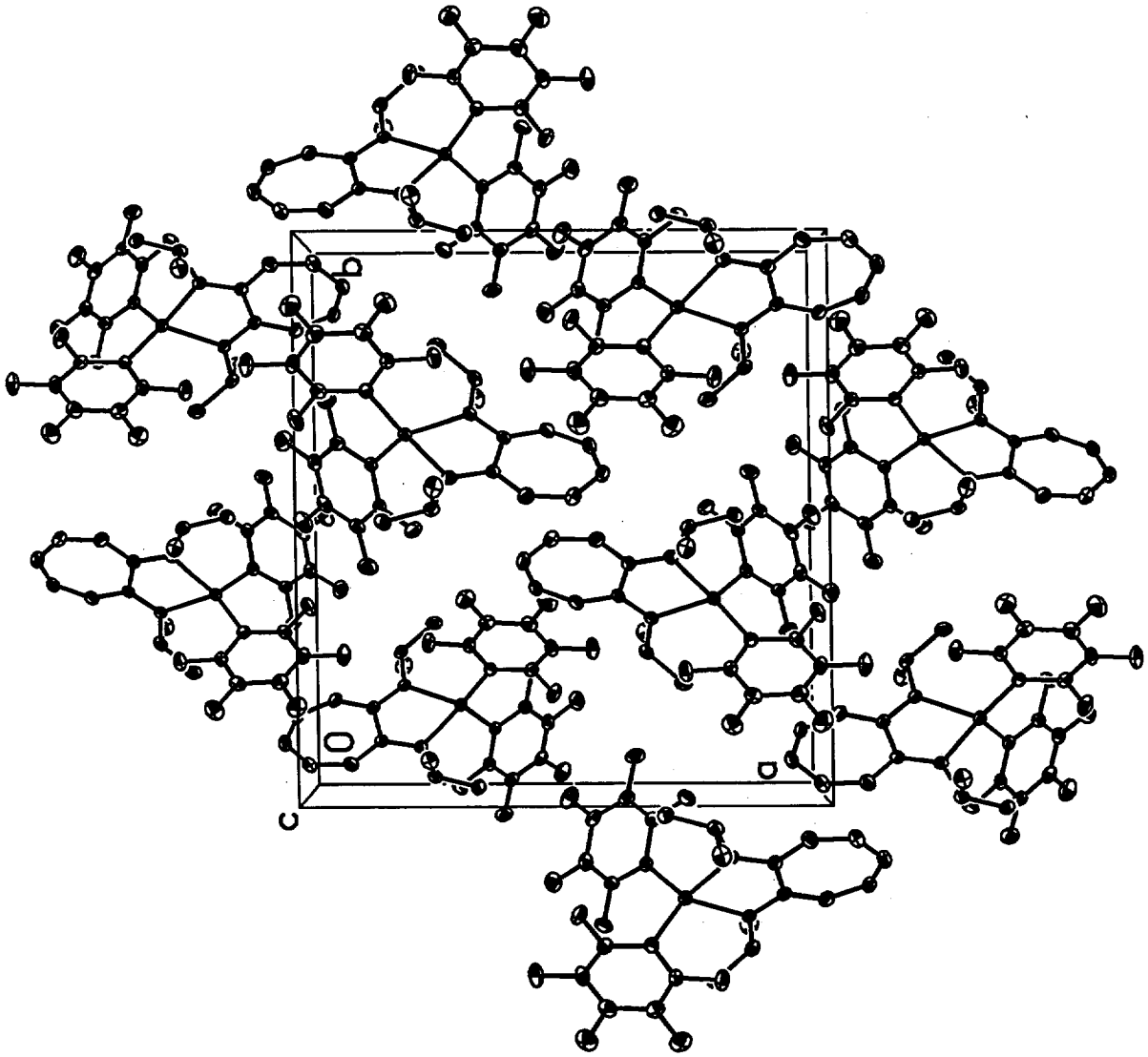


Table 1. Atomic coordinates ( x $10^4$) and equivalent isotropic displacement parameters ($Å^2$x $10^3$) for **9.** U(eq) is defined as one third of the trace of the orthogonalized $U^{ij}$ tensor.

| | x | y | z | U(eq) |
|---|---|---|---|---|
| In | 2147(1) | 6438(1) | 3115(1) | 25(1) |
| F(1) | 2229(1) | 4810(1) | 1265(2) | 42(1) |
| F(2) | 1319(1) | 4171(1) | -966(2) | 50(1) |
| F(3) | 65(1) | 4949(1) | -2286(2) | 55(1) |
| F(4) | -258(1) | 6387(1) | -1366(2) | 54(1) |
| F(5) | 665(1) | 7040(1) | 853(2) | 44(1) |
| F(6) | 208(1) | 6673(1) | 4036(2) | 48(1) |
| F(7) | -572(1) | 7549(1) | 6130(2) | 55(1) |
| F(8) | 306(1) | 8456(1) | 8075(3) | 58(1) |
| F(9) | 1949(1) | 8508(1) | 7857(2) | 54(1) |
| F(10) | 2740(1) | 7667(1) | 5703(2) | 45(1) |
| N(1) | 3325(1) | 6796(1) | 2357(2) | 26(1) |
| N(2) | 2958(1) | 5687(1) | 4283(2) | 27(1) |
| C(1) | 3412(1) | 7415(1) | 1217(3) | 33(1) |
| C(2) | 3401(2) | 7103(2) | -441(3) | 47(1) |
| C(3) | 2712(2) | 7969(1) | 1450(3) | 41(1) |
| C(4) | 3955(1) | 6385(1) | 2847(3) | 26(1) |
| C(5) | 4755(1) | 6512(1) | 2244(3) | 36(1) |
| C(6) | 5519(1) | 6238(1) | 2676(3) | 41(1) |
| C(7) | 5742(1) | 5745(1) | 3824(3) | 45(1) |
| C(8) | 5204(1) | 5364(1) | 4798(3) | 46(1) |
| C(9) | 4358(1) | 5378(1) | 4843(3) | 38(1) |
| C(10) | 3758(1) | 5792(1) | 4026(2) | 26(1) |
| C(11) | 2656(1) | 5162(1) | 5469(3) | 33(1) |
| C(12) | 2726(2) | 5520(2) | 7073(3) | 44(1) |
| C(13) | 1779(2) | 4950(2) | 5122(3) | 39(1) |
| C(14) | 1466(1) | 5943(1) | 1188(2) | 27(1) |
| C(15) | 1601(1) | 5217(1) | 668(3) | 30(1) |
| C(16) | 1144(1) | 4874(1) | -479(3) | 34(1) |
| C(17) | 514(1) | 5269(1) | -1157(3) | 36(1) |
| C(18) | 357(1) | 5998(1) | -694(3) | 35(1) |

| | | | | |
|---|---|---|---|---|
| C(19) | 831(1) | 6318(1) | 448(3) | 30(1) |
| C(20) | 1504(1) | 7139(1) | 4777(2) | 27(1) |
| C(21) | 661(2) | 7135(1) | 4959(3) | 32(1) |
| C(22) | 249(1) | 7565(1) | 6036(3) | 37(1) |
| C(23) | 686(1) | 8023(1) | 7007(3) | 38(1) |
| C(24) | 1531(1) | 8052(1) | 6895(3) | 35(1) |
| C(25) | 1915(1) | 7618(1) | 5794(3) | 30(1) |

Table 2. Bond lengths [Å] and angles [°] for **9.**

| | |
|---|---|
| In-N(1) | 2.1260(17) |
| In-N(2) | 2.1286(17) |
| In-C(20) | 2.164(2) |
| In-C(14) | 2.178(2) |
| F(1)-C(15) | 1.354(3) |
| F(2)-C(16) | 1.343(2) |
| F(3)-C(17) | 1.341(2) |
| F(4)-C(18) | 1.349(3) |
| F(5)-C(19) | 1.351(2) |
| F(6)-C(21) | 1.358(3) |
| F(7)-C(22) | 1.344(2) |
| F(8)-C(23) | 1.347(3) |
| F(9)-C(24) | 1.342(3) |
| F(10)-C(25) | 1.352(2) |
| N(1)-C(4) | 1.330(3) |
| N(1)-C(1) | 1.475(3) |
| N(2)-C(10) | 1.337(2) |
| N(2)-C(11) | 1.465(3) |
| C(1)-C(3) | 1.520(3) |
| C(1)-C(2) | 1.527(3) |
| C(4)-C(5) | 1.423(3) |
| C(4)-C(10) | 1.493(3) |
| C(5)-C(6) | 1.390(3) |
| C(6)-C(7) | 1.365(4) |
| C(7)-C(8) | 1.389(4) |
| C(8)-C(9) | 1.381(3) |
| C(9)-C(10) | 1.411(3) |
| C(11)-C(13) | 1.510(3) |
| C(11)-C(12) | 1.521(4) |
| C(14)-C(15) | 1.378(3) |
| C(14)-C(19) | 1.386(3) |
| C(15)-C(16) | 1.377(3) |
| C(16)-C(17) | 1.373(3) |
| C(17)-C(18) | 1.375(3) |

| | |
|---|---|
| C(18)-C(19) | 1.372(3) |
| C(20)-C(21) | 1.384(3) |
| C(20)-C(25) | 1.390(3) |
| C(21)-C(22) | 1.374(3) |
| C(22)-C(23) | 1.365(3) |
| C(23)-C(24) | 1.384(3) |
| C(24)-C(25) | 1.370(3) |

| | |
|---|---|
| N(1)-In-N(2) | 76.59(6) |
| N(1)-In-C(20) | 118.09(7) |
| N(2)-In-C(20) | 110.45(7) |
| N(1)-In-C(14) | 110.43(7) |
| N(2)-In-C(14) | 115.10(7) |
| C(20)-In-C(14) | 118.94(8) |
| C(4)-N(1)-C(1) | 122.82(17) |
| C(4)-N(1)-In | 116.11(14) |
| C(1)-N(1)-In | 120.75(14) |
| C(10)-N(2)-C(11) | 122.18(17) |
| C(10)-N(2)-In | 116.28(14) |
| C(11)-N(2)-In | 120.95(13) |
| N(1)-C(1)-C(3) | 108.61(18) |
| N(1)-C(1)-C(2) | 110.49(19) |
| C(3)-C(1)-C(2) | 110.3(2) |
| N(1)-C(4)-C(5) | 120.6(2) |
| N(1)-C(4)-C(10) | 115.63(17) |
| C(5)-C(4)-C(10) | 123.82(19) |
| C(6)-C(5)-C(4) | 132.2(2) |
| C(7)-C(6)-C(5) | 130.9(2) |
| C(6)-C(7)-C(8) | 125.3(2) |
| C(9)-C(8)-C(7) | 129.8(3) |
| C(8)-C(9)-C(10) | 133.6(2) |
| N(2)-C(10)-C(9) | 121.6(2) |
| N(2)-C(10)-C(4) | 114.86(18) |
| C(9)-C(10)-C(4) | 123.50(19) |
| N(2)-C(11)-C(13) | 109.89(18) |
| N(2)-C(11)-C(12) | 109.9(2) |

| | |
|---|---|
| C(13)-C(11)-C(12) | 110.7(2) |
| C(15)-C(14)-C(19) | 114.68(19) |
| C(15)-C(14)-In | 122.68(16) |
| C(19)-C(14)-In | 122.54(16) |
| F(1)-C(15)-C(16) | 116.5(2) |
| F(1)-C(15)-C(14) | 119.6(2) |
| C(16)-C(15)-C(14) | 123.8(2) |
| F(2)-C(16)-C(17) | 119.9(2) |
| F(2)-C(16)-C(15) | 121.1(2) |
| C(17)-C(16)-C(15) | 119.0(2) |
| F(3)-C(17)-C(16) | 120.1(2) |
| F(3)-C(17)-C(18) | 120.3(2) |
| C(16)-C(17)-C(18) | 119.6(2) |
| F(4)-C(18)-C(19) | 121.0(2) |
| F(4)-C(18)-C(17) | 119.7(2) |
| C(19)-C(18)-C(17) | 119.3(2) |
| F(5)-C(19)-C(18) | 117.5(2) |
| F(5)-C(19)-C(14) | 119.03(19) |
| C(18)-C(19)-C(14) | 123.5(2) |
| C(21)-C(20)-C(25) | 114.3(2) |
| C(21)-C(20)-In | 123.68(17) |
| C(25)-C(20)-In | 121.95(14) |
| F(6)-C(21)-C(22) | 117.3(2) |
| F(6)-C(21)-C(20) | 118.6(2) |
| C(22)-C(21)-C(20) | 124.1(2) |
| F(7)-C(22)-C(23) | 119.9(2) |
| F(7)-C(22)-C(21) | 121.2(2) |
| C(23)-C(22)-C(21) | 118.9(2) |
| F(8)-C(23)-C(22) | 120.8(2) |
| F(8)-C(23)-C(24) | 119.1(2) |
| C(22)-C(23)-C(24) | 120.1(2) |
| F(9)-C(24)-C(25) | 122.0(2) |
| F(9)-C(24)-C(23) | 119.1(2) |
| C(25)-C(24)-C(23) | 118.9(2) |
| F(10)-C(25)-C(24) | 117.4(2) |
| F(10)-C(25)-C(20) | 118.98(19) |

| | |
|---|---|
| C(24)-C(25)-C(20) | 123.7(2) |

Table 3. Anisotropic displacement parameters ($Å^2 \times 10^3$) **for 9.** The anisotropic displacement factor exponent takes the form: $-2\pi^2[ h^2 a^{*2}U^{11} + ... + 2 h k a^* b^* U^{12} ]$

| | $U^{11}$ | $U^{22}$ | $U^{33}$ | $U^{23}$ | $U^{13}$ | $U^{12}$ |
|---|---|---|---|---|---|---|
| In | 24(1) | 25(1) | 25(1) | 0(1) | 1(1) | -2(1) |
| F(1) | 42(1) | 37(1) | 47(1) | -5(1) | -5(1) | 12(1) |
| F(2) | 59(1) | 37(1) | 55(1) | -19(1) | 6(1) | -8(1) |
| F(3) | 51(1) | 73(1) | 40(1) | -11(1) | -11(1) | -20(1) |
| F(4) | 42(1) | 67(1) | 53(1) | 10(1) | -18(1) | 5(1) |
| F(5) | 46(1) | 31(1) | 54(1) | -4(1) | -6(1) | 10(1) |
| F(6) | 34(1) | 61(1) | 49(1) | -12(1) | 1(1) | -17(1) |
| F(7) | 28(1) | 81(1) | 56(1) | 1(1) | 12(1) | 3(1) |
| F(8) | 62(1) | 65(1) | 46(1) | -15(1) | 20(1) | 10(1) |
| F(9) | 62(1) | 59(1) | 42(2) | -22(1) | 2(1) | -11(1) |
| F(10) | 27(1) | 64(1) | 45(1) | -12(1) | -2(1) | -5(1) |
| N(1) | 26(1) | 24(1) | 27(1) | 0(1) | 3(1) | -4(1) |
| N(2) | 30(1) | 25(1) | 25(1) | 2(1) | 2(1) | -1(1) |
| C(1) | 31(1) | 33(1) | 35(1) | 6(1) | 3(1) | -9(1) |
| C(2) | 50(2) | 62(2) | 31(1) | 6(1) | 7(1) | -7(1) |
| C(3) | 49(1) | 29(1) | 44(2) | 6(1) | 4(1) | -2(1) |
| C(4) | 26(1) | 25(1) | 27(2) | -8(1) | 3(1) | -4(1) |
| C(5) | 32(1) | 33(1) | 42(1) | -3(1) | 5(1) | -7(1) |
| C(6) | 25(1) | 40(1) | 57(2) | -12(1) | 10(1) | -5(1) |
| C(7) | 26(1) | 43(1) | 67(2) | -14(1) | 1(1) | 5(1) |
| C(8) | 34(1) | 41(2) | 61(2) | 2(1) | -5(1) | 8(1) |
| C(9) | 37(1) | 36(1) | 43(1) | 6(1) | 2(1) | 4(1) |
| C(10) | 28(1) | 25(1) | 26(1) | -6(1) | 2(1) | -1(1) |
| C(11) | 35(1) | 30(1) | 33(1) | 10(1) | 5(1) | 4(1) |
| C(12) | 47(1) | 57(2) | 29(1) | 7(1) | 1(1) | 4(1) |
| C(13) | 36(1) | 37(2) | 45(2) | 17(1) | 4(1) | -4(1) |
| C(14) | 23(1) | 30(1) | 28(1) | -1(1) | 3(1) | -2(1) |
| C(15) | 24(1) | 35(1) | 30(1) | 2(1) | 4(1) | 0(1) |
| C(16) | 37(1) | 32(1) | 33(1) | -8(1) | 9(1) | -8(1) |
| C(17) | 33(1) | 46(1) | 29(1) | -4(1) | 0(1) | -15(1) |
| C(18) | 27(1) | 45(1) | 32(1) | 6(1) | -2(1) | -2(1) |

| | | | | | | |
|---|---|---|---|---|---|---|
| C(19) | 31(1) | 28(1) | 32(1) | 2(1) | 3(1) | -1(1) |
| C(20) | 27(1) | 27(1) | 27(1) | 1(1) | 3(1) | 0(1) |
| C(21) | 32(1) | 32(1) | 32(1) | 3(1) | 0(1) | -5(1) |
| C(22) | 27(1) | 48(2) | 36(1) | 8(1) | 11(1) | 4(1) |
| C(23) | 44(1) | 40(1) | 30(1) | -4(1) | 12(1) | 5(1) |
| C(24) | 43(1) | 35(1) | 26(1) | -3(1) | 0(1) | -5(1) |
| C(25) | 26(1) | 35(1) | 29(1) | 3(1) | -1(1) | 0(1) |

Table 4. Hydrogen coordinates ( x $10^4$) and isotropic displacement parameters ($Å^2$x $10^3$) for **9.**

| | x | y | z | U(eq) |
|---|---|---|---|---|
| H(1) | 3943 | 7681 | 1402 | 39 |
| H(2A) | 3828 | 6719 | -552 | 71 |
| H(2B) | 3502 | 7515 | -1179 | 71 |
| H(2C) | 2865 | 6877 | -655 | 71 |
| H(3A) | 2190 | 7716 | 1230 | 61 |
| H(3B) | 2780 | 8398 | 742 | 61 |
| H(3C) | 2713 | 8149 | 2529 | 61 |
| H(5) | 4769 | 6849 | 1383 | 43 |
| H(6) | 5962 | 6426 | 2071 | 49 |
| H(7) | 6311 | 5656 | 3967 | 54 |
| H(8) | 5456 | 5045 | 5548 | 55 |
| H(9) | 4134 | 5035 | 5580 | 46 |
| H(11) | 2999 | 4694 | 5444 | 39 |
| H(12A) | 3289 | 5695 | 7237 | 66 |
| H(12B) | 2586 | 5145 | 7870 | 66 |
| H(12C) | 2350 | 5949 | 7146 | 66 |
| H(13A) | 1433 | 5401 | 5188 | 59 |
| H(13B) | 1591 | 4575 | 5882 | 59 |
| H(13C) | 1743 | 4737 | 4072 | 59 |

VII. X-ray Crystallographic Analysis of [($^i$Pr$_2$-ATI)In(Me)(NMe$_2$Ph)][B(C$_6$F$_5$)$_4$] (**10**).

## Crystallographic Experimental Section

### *Data Collection*

A yellow crystal with approximate dimensions 0.41 x 0.39 x 0.39 mm$^3$ was selected under oil under ambient conditions and attached to the tip of a glass capillary. The crystal was mounted in a stream of cold nitrogen at 183(2) K and centered in the X-ray beam by using a video camera.

The crystal evaluation and data collection were performed on a Bruker CCD-1000 diffractometer with Mo $K_\alpha$ ($\lambda$ = 0.71073 Å) radiation and the diffractometer to crystal distance of 5.08 cm.

The initial cell constants were obtained from three series of $\omega$ scans at different starting angles. Each series consisted of 20 frames collected at intervals of 0.3° in a 6° range about $\omega$ with the exposure time of 10 seconds per frame. A total of 77 reflections was obtained. The reflections were successfully indexed by an automated indexing routine built in the SMART program. The final cell constants were calculated from a set of 7424 strong reflections from the actual data collection.

The data were collected by using the hemisphere data collection routine. The reciprocal space was surveyed to the extent of 1.2 hemisphere to a resolution of 0.80 Å. A total of 33129 data were harvested by collecting two sets of frames with 0.4° scans in $\omega$ with an exposure time 10 sec per frame. These highly redundant datasets were corrected for Lorentz and polarization effects. The absorption correction was based on fitting a function to the empirical transmission surface as sampled by multiple equivalent measurements. [1]

### *Structure Solution and Refinement*

The systematic absences in the diffraction data were uniquely consistent for the space group $P2_1/c$ that yielded chemically reasonable and computationally stable results of refinement [2]. A successful solution by the direct methods provided most non-hydrogen atoms from the *E*-map. The remaining non-hydrogen atoms were located in an alternating series of least-squares cycles and difference Fourier maps. All non-hydrogen

atoms were refined with anisotropic displacement coefficients. All hydrogen atoms were included in the structure factor calculation at idealized positions and were allowed to ride on the neighboring atoms with relative isotropic displacement coefficients. The isopropyl group on atom N(2) is equally disordered over two positions and was refined with an idealized geometry. The final least-squares refinement of 670 parameters against 9111 data resulted in residuals $R$ (based on $F^2$ for $I \geq 2\sigma$) and $wR$ (based on $F^2$ for all data) of 0.02.53 and 0.0622, respectively. The final difference Fourier map was featureless.

The ORTEP diagrams were drawn with 30% probability ellipsoids.

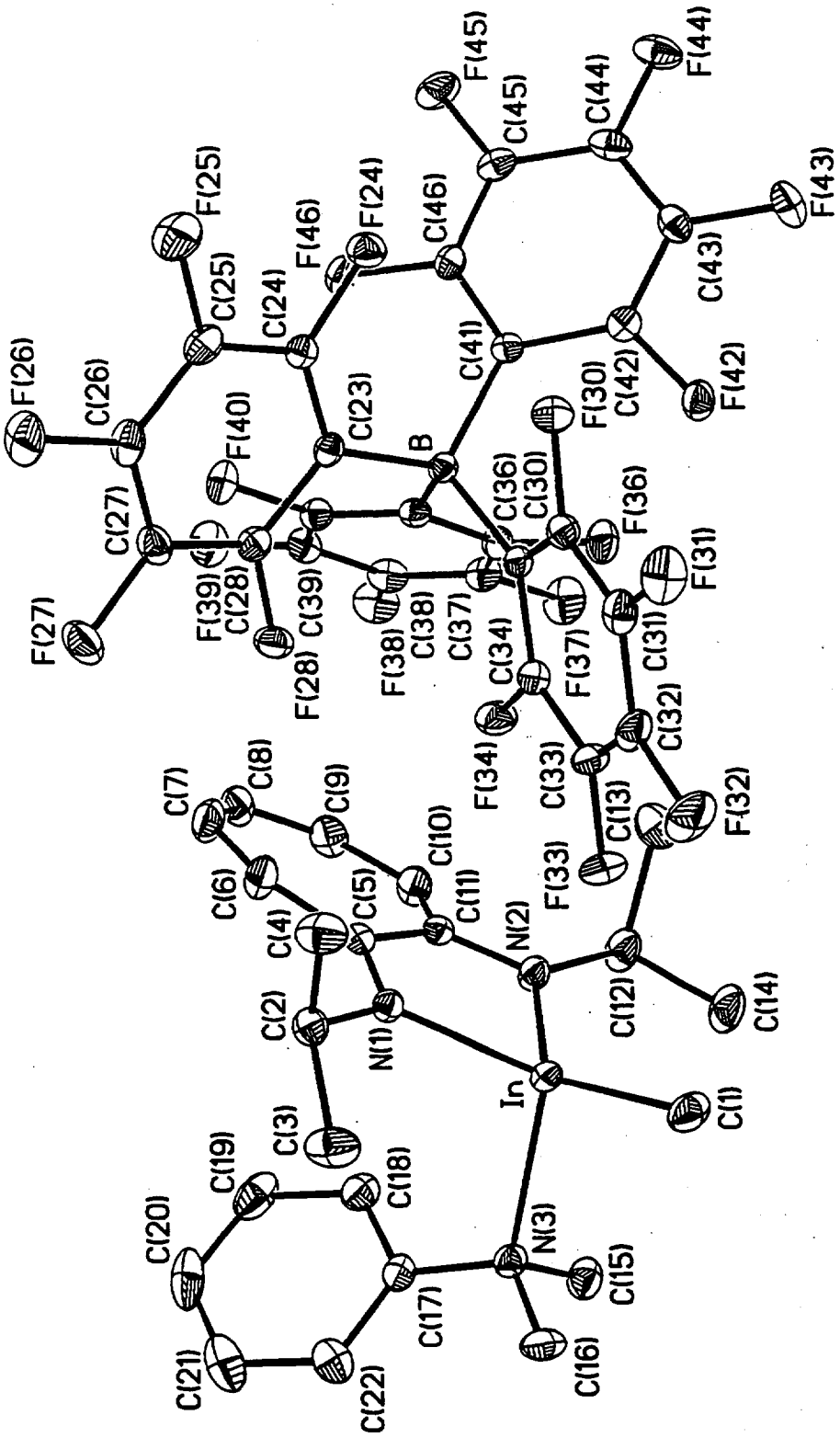
***References***

[1] Blessing, R.H. *Acta Cryst.* **1995**, *A51*, 33-38.

[2] All software and sources of the scattering factors are contained in the SHELXTL (version 5.1) program library (G. Sheldrick, Bruker Analytical X-Ray Systems, Madison, WI).

Crystal data and structure refinement for **10**

| | | |
|---|---|---|
| Identification code | jor24 | |
| Empirical formula | $C_{46}\ H_{33}\ B\ F_{20}\ In\ N_3$ | |
| Formula weight | 1133.38 | |
| Temperature | 183(2) K | |
| Wavelength | 0.71073 Å | |
| Crystal system | Monoclinic | |
| Space group | $P2_1/c$ | |
| Unit cell dimensions | a = 12.1883(9) Å | α= 90° |
| | b = 20.9248(16) Å | β= 93.187(1)° |
| | c = 17.5691(13) Å | γ = 90° |
| Volume | 4473.9(6) $Å^3$ | |
| Z | 4 | |
| Density (calculated) | 1.683 $Mg/m^3$ | |
| Absorption coefficient | 0.650 $mm^{-1}$ | |
| F(000) | 2256 | |
| Crystal size | 0.41 x 0.39 x 0.39 $mm^3$ | |
| Theta range for data collection | 1.95 to 26.37°. | |
| Index ranges | -15<=h<=15, 0<=k<=26, 0<=l<=21 | |
| Reflections collected | 33129 | |
| Independent reflections | 9111 [R(int) = 0.0162] | |
| Completeness to theta = 26.37° | 99.7 % | |
| Absorption correction | Empirical with SADABS | |
| Max. and min. transmission | 0.7855 and 0.7763 | |
| Refinement method | Full-matrix least-squares on $F^2$ | |
| Data / restraints / parameters | 9111 / 24 / 670 | |
| Goodness-of-fit on $F^2$ | 1.024 | |
| Final R indices [I>2sigma(I)] | R1 = 0.0253, wR2 = 0.0622 | |
| R indices (all data) | R1 = 0.0341, wR2 = 0.0665 | |
| Largest diff. peak and hole | 0.739 and -0.762 $e.Å^{-3}$ | |


F(45)
C(45)
C(44)
F(44)
F(25)
F(24)
C(46)
F(43)
C(25)
C(24)
F(46)
C(43)
F(26)
C(26)
C(41)
F(30)
C(42)
F(42)
C(23)
B
C(36)
C(30)
F(40)
F(36)
C(27)
F(31)
F(39)
C(28)
C(39)
C(38)
C(37)
C(31)
F(27)
F(28)
F(38)
C(34)
F(37)
C(32)
F(34)
C(33)
F(32)
C(7)
C(8)
C(9)
C(10)
C(13)
C(6)
F(33)
C(5)
C(11)
N(2)
C(4)
C(12)
C(14)
C(2)
N(1)
In
C(1)
C(3)
C(19)
C(18)
C(20)
N(3)
C(15)
C(17)
C(21)
C(16)
C(22)

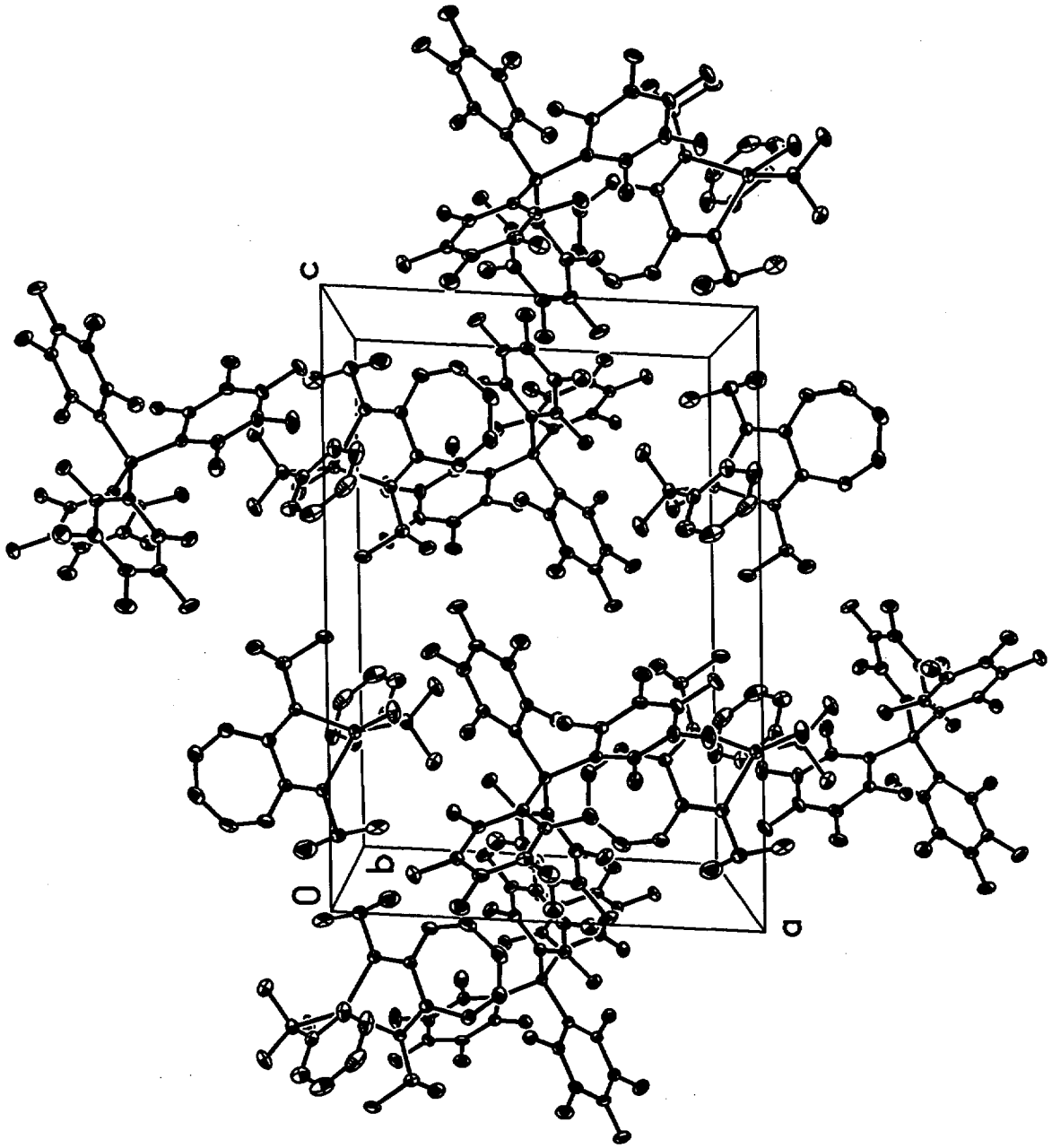


Table 1. Atomic coordinates ( x $10^4$) and equivalent isotropic displacement parameters ($Å^2$x $10^3$) for **10.** U(eq) is defined as one third of the trace of the orthogonalized $U^{ij}$ tensor.

| | x | y | z | U(eq) |
|---|---|---|---|---|
| In | 10324(1) | 1321(1) | 7649(1) | 26(1) |
| F(24) | 3184(1) | 3769(1) | 7889(1) | 31(1) |
| F(25) | 2340(1) | 3465(1) | 9192(1) | 44(1) |
| F(26) | 2956(1) | 2381(1) | 9951(1) | 46(1) |
| F(27) | 4498(1) | 1602(1) | 9370(1) | 44(1) |
| F(28) | 5389(1) | 1901(1) | 8062(1) | 34(1) |
| F(30) | 5492(1) | 4103(1) | 8134(1) | 30(1) |
| F(31) | 7305(1) | 4325(1) | 9016(1) | 43(1) |
| F(32) | 9102(1) | 3559(1) | 8927(1) | 54(1) |
| F(33) | 9022(1) | 2561(1) | 7930(1) | 52(1) |
| F(34) | 7226(1) | 2292(1) | 7104(1) | 39(1) |
| F(36) | 6419(1) | 3048(1) | 5869(1) | 37(1) |
| F(37) | 6528(1) | 2198(1) | 4745(1) | 48(1) |
| F(38) | 5221(1) | 1139(1) | 4712(1) | 47(1) |
| F(39) | 3790(1) | 961(1) | 5827(1) | 44(1) |
| F(40) | 3665(1) | 1792(1) | 6951(1) | 34(1) |
| F(42) | 6034(1) | 4310(1) | 6651(1) | 33(1) |
| F(43) | 5033(1) | 5183(1) | 5783(1) | 41(1) |
| F(44) | 2961(1) | 4980(1) | 5159(1) | 42(1) |
| F(45) | 1862(1) | 3899(1) | 5520(1) | 43(1) |
| F(46) | 2803(1) | 3043(1) | 6487(1) | 31(1) |
| N(1) | 8811(1) | 945(1) | 7970(1) | 26(1) |
| N(2) | 9470(1) | 1197(1) | 6585(1) | 31(1) |
| N(3) | 11577(1) | 439(1) | 7818(1) | 30(1) |
| B | 5025(2) | 3032(1) | 7137(1) | 21(1) |
| C(1) | 11349(2) | 2075(1) | 8072(2) | 44(1) |
| C(2) | 8522(2) | 869(1) | 8772(1) | 32(1) |
| C(3) | 9552(2) | 754(2) | 9273(1) | 49(1) |
| C(4) | 7901(2) | 1448(1) | 9050(1) | 47(1) |
| C(5) | 8104(2) | 792(1) | 7392(1) | 26(1) |
| C(6) | 7014(2) | 597(1) | 7520(1) | 38(1) |

| | | | | |
|---|---|---|---|---|
| C(7) | 6190(2) | 328(1) | 7054(2) | 44(1) |
| C(8) | 6171(2) | 170(1) | 6295(2) | 43(1) |
| C(9) | 6986(2) | 306(1) | 5815(1) | 43(1) |
| C(10) | 7972(2) | 632(1) | 5954(1) | 39(1) |
| C(11) | 8508(2) | 880(1) | 6616(1) | 28(1) |
| C(12) | 9853(2) | 1428(1) | 5839(1) | 50(1) |
| C(13) | 9099(4) | 1996(2) | 5631(3) | 67(2) |
| C(14) | 10881(2) | 1818(2) | 6058(4) | 63(3) |
| C(13A) | 10439(2) | 876(2) | 5445(3) | 58(2) |
| C(14A) | 10647(8) | 1983(4) | 5898(5) | 86(3) |
| C(15) | 12249(2) | 413(1) | 7138(2) | 41(1) |
| C(16) | 12329(2) | 609(1) | 8483(2) | 41(1) |
| C(17) | 11010(2) | -172(1) | 7911(1) | 30(1) |
| C(18) | 10165(2) | -326(1) | 7380(2) | 39(1) |
| C(19) | 9557(2) | -880(1) | 7466(2) | 53(1) |
| C(20) | 9810(3) | -1284(1) | 8070(2) | 60(1) |
| C(21) | 10677(3) | -1145(1) | 8576(2) | 58(1) |
| C(22) | 11275(2) | -588(1) | 8503(1) | 42(1) |
| C(23) | 4327(2) | 2843(1) | 7888(1) | 22(1) |
| C(24) | 3552(2) | 3222(1) | 8223(1) | 24(1) |
| C(25) | 3101(2) | 3079(1) | 8909(1) | 29(1) |
| C(26) | 3416(2) | 2535(1) | 9296(1) | 31(1) |
| C(27) | 4183(2) | 2138(1) | 8996(1) | 30(1) |
| C(28) | 4619(2) | 2303(1) | 8313(1) | 26(1) |
| C(29) | 6246(2) | 3195(1) | 7555(1) | 23(1) |
| C(30) | 6355(2) | 3702(1) | 8063(1) | 25(1) |
| C(31) | 7281(2) | 3831(1) | 8522(1) | 30(1) |
| C(32) | 8188(2) | 3445(1) | 8477(1) | 36(1) |
| C(33) | 8137(2) | 2944(1) | 7981(1) | 34(1) |
| C(34) | 7186(2) | 2819(1) | 7544(1) | 29(1) |
| C(35) | 5070(2) | 2460(1) | 6492(1) | 24(1) |
| C(36) | 5759(2) | 2530(1) | 5892(1) | 28(1) |
| C(37) | 5831(2) | 2097(1) | 5304(1) | 33(1) |
| C(38) | 5178(2) | 1562(1) | 5283(1) | 33(1) |
| C(39) | 4461(2) | 1476(1) | 5848(1) | 31(1) |
| C(40) | 4419(2) | 1919(1) | 6429(1) | 27(1) |

| | | | | |
|---|---|---|---|---|
| C(41) | 4467(2) | 3627(1) | 6633(1) | 22(1) |
| C(42) | 4980(2) | 4184(1) | 6411(1) | 25(1) |
| C(43) | 4489(2) | 4643(1) | 5941(1) | 28(1) |
| C(44) | 3444(2) | 4546(1) | 5636(1) | 31(1) |
| C(45) | 2888(2) | 4000(1) | 5825(1) | 29(1) |
| C(46) | 3400(2) | 3565(1) | 6314(1) | 25(1) |

Table 2. Bond lengths [Å] and angles [°] for **10.**

| | |
|---|---|
| In-N(2) | 2.1042(18) |
| In-N(1) | 2.1115(16) |
| In-C(1) | 2.121(2) |
| In-N(3) | 2.4048(17) |
| F(24)-C(24) | 1.351(2) |
| F(25)-C(25) | 1.346(2) |
| F(26)-C(26) | 1.346(2) |
| F(27)-C(27) | 1.347(2) |
| F(28)-C(28) | 1.353(2) |
| F(30)-C(30) | 1.356(2) |
| F(31)-C(31) | 1.348(2) |
| F(32)-C(32) | 1.351(2) |
| F(33)-C(33) | 1.351(2) |
| F(34)-C(34) | 1.350(2) |
| F(36)-C(36) | 1.352(2) |
| F(37)-C(37) | 1.351(2) |
| F(38)-C(38) | 1.342(2) |
| F(39)-C(39) | 1.352(2) |
| F(40)-C(40) | 1.359(2) |
| F(42)-C(42) | 1.356(2) |
| F(43)-C(43) | 1.348(2) |
| F(44)-C(44) | 1.349(2) |
| F(45)-C(45) | 1.349(2) |
| F(46)-C(46) | 1.356(2) |
| N(1)-C(5) | 1.333(3) |
| N(1)-C(2) | 1.479(3) |
| N(2)-C(11) | 1.351(3) |
| N(2)-C(12) | 1.495(3) |
| N(3)-C(17) | 1.467(3) |
| N(3)-C(15) | 1.486(3) |
| N(3)-C(16) | 1.487(3) |
| B-C(35) | 1.651(3) |
| B-C(41) | 1.653(3) |
| B-C(23) | 1.656(3) |

| | |
|---|---|
| B-C(29) | 1.657(3) |
| C(2)-C(3) | 1.513(3) |
| C(2)-C(4) | 1.523(3) |
| C(5)-C(6) | 1.419(3) |
| C(5)-C(11) | 1.487(3) |
| C(6)-C(7) | 1.380(3) |
| C(7)-C(8) | 1.374(4) |
| C(8)-C(9) | 1.368(4) |
| C(9)-C(10) | 1.391(3) |
| C(10)-C(11) | 1.402(3) |
| C(12)-C(14A) | 1.511(2) |
| C(12)-C(14) | 1.526(2) |
| C(12)-C(13) | 1.534(2) |
| C(12)-C(13A) | 1.542(2) |
| C(17)-C(22) | 1.379(3) |
| C(17)-C(18) | 1.389(3) |
| C(18)-C(19) | 1.389(3) |
| C(19)-C(20) | 1.377(4) |
| C(20)-C(21) | 1.374(5) |
| C(21)-C(22) | 1.384(4) |
| C(23)-C(24) | 1.390(3) |
| C(23)-C(28) | 1.391(3) |
| C(24)-C(25) | 1.386(3) |
| C(25)-C(26) | 1.370(3) |
| C(26)-C(27) | 1.377(3) |
| C(27)-C(28) | 1.381(3) |
| C(29)-C(34) | 1.390(3) |
| C(29)-C(30) | 1.390(3) |
| C(30)-C(31) | 1.377(3) |
| C(31)-C(32) | 1.376(3) |
| C(32)-C(33) | 1.361(3) |
| C(33)-C(34) | 1.379(3) |
| C(35)-C(40) | 1.384(3) |
| C(35)-C(36) | 1.392(3) |
| C(36)-C(37) | 1.379(3) |
| C(37)-C(38) | 1.372(3) |

| | |
|---|---|
| C(38)-C(39) | 1.371(3) |
| C(39)-C(40) | 1.382(3) |
| C(41)-C(42) | 1.389(3) |
| C(41)-C(46) | 1.393(3) |
| C(42)-C(43) | 1.381(3) |
| C(43)-C(44) | 1.369(3) |
| C(44)-C(45) | 1.379(3) |
| C(45)-C(46) | 1.377(3) |

| | |
|---|---|
| N(2)-In-N(1) | 78.18(6) |
| N(2)-In-C(1) | 131.03(9) |
| N(1)-In-C(1) | 133.62(9) |
| N(2)-In-N(3) | 107.10(7) |
| N(1)-In-N(3) | 103.79(6) |
| C(1)-In-N(3) | 99.79(8) |
| C(5)-N(1)-C(2) | 121.45(17) |
| C(5)-N(1)-In | 114.99(13) |
| C(2)-N(1)-In | 123.54(13) |
| C(11)-N(2)-C(12) | 120.54(18) |
| C(11)-N(2)-In | 114.36(13) |
| C(12)-N(2)-In | 125.10(13) |
| C(17)-N(3)-C(15) | 110.02(16) |
| C(17)-N(3)-C(16) | 113.26(18) |
| C(15)-N(3)-C(16) | 107.25(18) |
| C(17)-N(3)-In | 112.55(12) |
| C(15)-N(3)-In | 107.62(13) |
| C(16)-N(3)-In | 105.82(12) |
| C(35)-B-C(41) | 101.90(15) |
| C(35)-B-C(23) | 114.33(15) |
| C(41)-B-C(23) | 113.05(15) |
| C(35)-B-C(29) | 112.94(15) |
| C(41)-B-C(29) | 114.52(16) |
| C(23)-B-C(29) | 100.68(15) |
| N(1)-C(2)-C(3) | 109.73(17) |
| N(1)-C(2)-C(4) | 111.68(18) |
| C(3)-C(2)-C(4) | 110.5(2) |

| | |
|---|---|
| N(1)-C(5)-C(6) | 121.24(19) |
| N(1)-C(5)-C(11) | 115.86(17) |
| C(6)-C(5)-C(11) | 122.78(19) |
| C(7)-C(6)-C(5) | 132.8(2) |
| C(8)-C(7)-C(6) | 130.3(2) |
| C(9)-C(8)-C(7) | 125.1(2) |
| C(8)-C(9)-C(10) | 130.0(2) |
| C(9)-C(10)-C(11) | 133.3(2) |
| N(2)-C(11)-C(10) | 120.91(19) |
| N(2)-C(11)-C(5) | 115.49(18) |
| C(10)-C(11)-C(5) | 123.53(19) |
| N(2)-C(12)-C(14A) | 114.7(4) |
| N(2)-C(12)-C(14) | 104.1(3) |
| C(14A)-C(12)-C(14) | 19.7(4) |
| N(2)-C(12)-C(13) | 104.3(3) |
| C(14A)-C(12)-C(13) | 78.1(5) |
| C(14)-C(12)-C(13) | 96.7(3) |
| N(2)-C(12)-C(13A) | 109.1(2) |
| C(14A)-C(12)-C(13A) | 107.1(5) |
| C(14)-C(12)-C(13A) | 96.80(12) |
| C(13)-C(12)-C(13A) | 139.4(3) |
| C(22)-C(17)-C(18) | 119.6(2) |
| C(22)-C(17)-N(3) | 122.8(2) |
| C(18)-C(17)-N(3) | 117.6(2) |
| C(17)-C(18)-C(19) | 120.0(3) |
| C(20)-C(19)-C(18) | 119.9(3) |
| C(21)-C(20)-C(19) | 119.9(2) |
| C(20)-C(21)-C(22) | 120.6(3) |
| C(17)-C(22)-C(21) | 119.9(3) |
| C(24)-C(23)-C(28) | 113.29(17) |
| C(24)-C(23)-B | 126.36(17) |
| C(28)-C(23)-B | 119.65(16) |
| F(24)-C(24)-C(25) | 114.98(17) |
| F(24)-C(24)-C(23) | 121.14(17) |
| C(25)-C(24)-C(23) | 123.88(19) |
| F(25)-C(25)-C(26) | 119.74(18) |

| | |
|---|---|
| F(25)-C(25)-C(24) | 120.41(19) |
| C(26)-C(25)-C(24) | 119.84(19) |
| F(26)-C(26)-C(25) | 120.26(19) |
| F(26)-C(26)-C(27) | 120.5(2) |
| C(25)-C(26)-C(27) | 119.22(18) |
| F(27)-C(27)-C(26) | 119.81(18) |
| F(27)-C(27)-C(28) | 121.18(19) |
| C(26)-C(27)-C(28) | 119.01(19) |
| F(28)-C(28)-C(27) | 115.87(18) |
| F(28)-C(28)-C(23) | 119.38(17) |
| C(27)-C(28)-C(23) | 124.75(18) |
| C(34)-C(29)-C(30) | 113.00(18) |
| C(34)-C(29)-B | 126.77(18) |
| C(30)-C(29)-B | 119.55(16) |
| F(30)-C(30)-C(31) | 116.07(18) |
| F(30)-C(30)-C(29) | 119.01(17) |
| C(31)-C(30)-C(29) | 124.92(19) |
| F(31)-C(31)-C(32) | 119.9(2) |
| F(31)-C(31)-C(30) | 121.0(2) |
| C(32)-C(31)-C(30) | 119.1(2) |
| F(32)-C(32)-C(33) | 121.2(2) |
| F(32)-C(32)-C(31) | 120.0(2) |
| C(33)-C(32)-C(31) | 118.8(2) |
| F(33)-C(33)-C(32) | 119.4(2) |
| F(33)-C(33)-C(34) | 120.0(2) |
| C(32)-C(33)-C(34) | 120.6(2) |
| F(34)-C(34)-C(33) | 114.67(18) |
| F(34)-C(34)-C(29) | 121.70(19) |
| C(33)-C(34)-C(29) | 123.6(2) |
| C(40)-C(35)-C(36) | 113.19(18) |
| C(40)-C(35)-B | 127.34(17) |
| C(36)-C(35)-B | 119.23(17) |
| F(36)-C(36)-C(37) | 116.28(18) |
| F(36)-C(36)-C(35) | 119.41(18) |
| C(37)-C(36)-C(35) | 124.3(2) |
| F(37)-C(37)-C(38) | 119.69(19) |

| | |
|---|---|
| F(37)-C(37)-C(36) | 120.7(2) |
| C(38)-C(37)-C(36) | 119.63(19) |
| F(38)-C(38)-C(39) | 120.5(2) |
| F(38)-C(38)-C(37) | 120.7(2) |
| C(39)-C(38)-C(37) | 118.74(19) |
| F(39)-C(39)-C(38) | 119.67(19) |
| F(39)-C(39)-C(40) | 120.47(19) |
| C(38)-C(39)-C(40) | 119.9(2) |
| F(40)-C(40)-C(39) | 114.91(18) |
| F(40)-C(40)-C(35) | 120.85(17) |
| C(39)-C(40)-C(35) | 124.23(19) |
| C(42)-C(41)-C(46) | 112.89(18) |
| C(42)-C(41)-B | 127.18(18) |
| C(46)-C(41)-B | 119.60(17) |
| F(42)-C(42)-C(43) | 114.92(17) |
| F(42)-C(42)-C(41) | 120.67(18) |
| C(43)-C(42)-C(41) | 124.41(19) |
| F(43)-C(43)-C(44) | 120.07(19) |
| F(43)-C(43)-C(42) | 120.36(19) |
| C(44)-C(43)-C(42) | 119.57(19) |
| F(44)-C(44)-C(43) | 120.5(2) |
| F(44)-C(44)-C(45) | 120.3(2) |
| C(43)-C(44)-C(45) | 119.16(19) |
| F(45)-C(45)-C(46) | 121.49(19) |
| F(45)-C(45)-C(44) | 119.43(19) |
| C(46)-C(45)-C(44) | 119.08(19) |
| F(46)-C(46)-C(45) | 116.20(18) |
| F(46)-C(46)-C(41) | 118.97(17) |
| C(45)-C(46)-C(41) | 124.83(18) |

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

| | $U^{11}$ | $U^{22}$ | $U^{33}$ | $U^{23}$ | $U^{13}$ | $U^{12}$ |
|---|---|---|---|---|---|---|
| In | 21(1) | 27(1) | 29(1) | 0(1) | -1(1) | -1(1) |
| F(24) | 33(1) | 32(1) | 31(1) | 2(1) | 7(1) | 9(1) |
| F(25) | 45(1) | 53(1) | 37(1) | -5(1) | 20(1) | 9(1) |
| F(26) | 53(1) | 60(1) | 26(1) | 8(1) | 14(1) | -6(1) |
| F(27) | 55(1) | 41(1) | 37(1) | 16(1) | 3(1) | 2(1) |
| F(28) | 35(1) | 32(1) | 36(1) | 5(1) | 5(1) | 9(1) |
| F(30) | 32(1) | 31(1) | 28(1) | -5(1) | 2(1) | 4(1) |
| F(31) | 51(1) | 54(1) | 25(1) | -7(1) | -2(1) | -17(1) |
| F(32) | 33(1) | 87(1) | 41(1) | 13(1) | -16(1) | -14(1) |
| F(33) | 24(1) | 58(1) | 74(1) | 16(1) | 0(1) | 11(1) |
| F(34) | 33(1) | 34(1) | 52(1) | -5(1) | 5(1) | 10(1) |
| F(36) | 39(1) | 38(1) | 36(1) | -1(1) | 15(1) | -8(1) |
| F(37) | 56(1) | 60(1) | 31(1) | -7(1) | 22(1) | 1(1) |
| F(38) | 59(1) | 48(1) | 32(1) | -18(1) | 2(1) | 9(1) |
| F(39) | 51(1) | 35(1) | 46(1) | -14(1) | 2(1) | -11(1) |
| F(40) | 34(1) | 35(1) | 34(1) | -7(1) | 11(1) | -11(1) |
| F(42) | 29(1) | 36(1) | 34(1) | 8(1) | -5(1) | -10(1) |
| F(43) | 57(1) | 29(1) | 36(1) | 9(1) | -1(1) | -7(1) |
| F(44) | 51(1) | 44(1) | 30(1) | 9(1) | -2(1) | 19(1) |
| F(45) | 26(1) | 66(1) | 38(1) | 5(1) | -7(1) | 5(1) |
| F(46) | 25(1) | 37(1) | 33(1) | 1(1) | 1(1) | -7(1) |
| N(1) | 24(1) | 30(1) | 24(1) | 1(1) | 1(1) | -2(1) |
| N(2) | 26(1) | 43(1) | 25(1) | 7(1) | 2(1) | -5(1) |
| N(3) | 26(1) | 26(1) | 37(1) | -3(1) | -1(1) | 0(1) |
| B | 20(1) | 23(1) | 21(1) | 1(1) | 3(1) | 1(1) |
| C(1) | 28(1) | 29(1) | 76(2) | -12(1) | -4(1) | -2(1) |
| C(2) | 33(1) | 37(1) | 25(1) | 4(1) | 4(1) | 0(1) |
| C(3) | 48(2) | 75(2) | 23(1) | 5(1) | 1(1) | 18(1) |
| C(4) | 47(2) | 60(2) | 34(1) | -1(1) | 8(1) | 15(1) |
| C(5) | 27(1) | 24(1) | 27(1) | 3(1) | 2(1) | -1(1) |
| C(6) | 32(1) | 50(1) | 32(1) | 2(1) | 4(1) | -12(1) |

| | | | | | | |
|---|---|---|---|---|---|---|
| C(7) | 32(1) | 51(2) | 49(2) | 8(1) | 0(1) | -16(1) |
| C(8) | 41(1) | 39(1) | 46(1) | 9(1) | -13(1) | -17(1) |
| C(9) | 51(2) | 46(1) | 31(1) | 3(1) | -11(1) | -10(1) |
| C(10) | 40(1) | 49(1) | 27(1) | 5(1) | -2(1) | -6(1) |
| C(11) | 26(1) | 31(1) | 27(1) | 5(1) | 0(1) | 2(1) |
| C(12) | 38(1) | 81(2) | 32(1) | 23(1) | 3(1) | -11(1) |
| C(13) | 78(4) | 73(4) | 50(3) | 12(3) | 11(3) | -18(4) |
| C(14) | 77(4) | 71(4) | 42(4) | 42(3) | 14(3) | -29(3) |
| C(13A) | 50(3) | 102(5) | 23(2) | 13(3) | 4(2) | 8(3) |
| C(14A) | 140(7) | 87(5) | 30(4) | 32(4) | -5(4) | -62(5) |
| C(15) | 36(1) | 35(1) | 52(2) | -3(1) | 14(1) | -3(1) |
| C(16) | 33(1) | 34(1) | 55(2) | -5(1) | -15(1) | 6(1) |
| C(17) | 28(1) | 25(1) | 39(1) | -7(1) | 7(1) | 0(1) |
| C(18) | 33(1) | 30(1) | 54(2) | -9(1) | 2(1) | 2(1) |
| C(19) | 36(1) | 42(1) | 84(2) | -25(1) | 10(1) | -6(1) |
| C(20) | 70(2) | 35(1) | 78(2) | -13(1) | 41(2) | -18(1) |
| C(21) | 91(2) | 36(1) | 49(2) | -1(1) | 25(2) | -7(1) |
| C(22) | 55(2) | 33(1) | 39(1) | -3(1) | 8(1) | 1(1) |
| C(23) | 20(1) | 25(1) | 20(1) | -2(1) | 0(1) | -4(1) |
| C(24) | 24(1) | 26(1) | 23(1) | -1(1) | 1(1) | -1(1) |
| C(25) | 24(1) | 38(1) | 25(1) | -7(1) | 5(1) | -2(1) |
| C(26) | 33(1) | 41(1) | 18(1) | 0(1) | 4(1) | -10(1) |
| C(27) | 34(1) | 31(1) | 25(1) | 7(1) | -4(1) | -5(1) |
| C(28) | 23(1) | 27(1) | 27(1) | -2(1) | 1(1) | -1(1) |
| C(29) | 21(1) | 26(1) | 23(1) | 5(1) | 4(1) | -1(1) |
| C(30) | 25(1) | 28(1) | 21(1) | 5(1) | 2(1) | -1(1) |
| C(31) | 35(1) | 37(1) | 19(1) | 4(1) | 0(1) | -10(1) |
| C(32) | 24(1) | 55(1) | 30(1) | 16(1) | -7(1) | -11(1) |
| C(33) | 20(1) | 41(1) | 41(1) | 14(1) | 2(1) | 5(1) |
| C(34) | 25(1) | 29(1) | 32(1) | 5(1) | 4(1) | 0(1) |
| C(35) | 24(1) | 25(1) | 23(1) | 0(1) | 2(1) | 3(1) |
| C(36) | 29(1) | 30(1) | 26(1) | 1(1) | 4(1) | 1(1) |
| C(37) | 34(1) | 44(1) | 23(1) | 0(1) | 9(1) | 7(1) |
| C(38) | 40(1) | 35(1) | 24(1) | -10(1) | -1(1) | 9(1) |
| C(39) | 35(1) | 27(1) | 30(1) | -4(1) | -3(1) | 0(1) |
| C(40) | 27(1) | 30(1) | 24(1) | -1(1) | 3(1) | 2(1) |

| | | | | | | |
|---|---|---|---|---|---|---|
| C(41) | 23(1) | 26(1) | 19(1) | -2(1) | 3(1) | 3(1) |
| C(42) | 26(1) | 29(1) | 21(1) | -2(1) | 0(1) | -1(1) |
| C(43) | 38(1) | 25(1) | 23(1) | 1(1) | 5(1) | 0(1) |
| C(44) | 38(1) | 34(1) | 20(1) | 2(1) | 2(1) | 13(1) |
| C(45) | 23(1) | 42(1) | 22(1) | -3(1) | 0(1) | 7(1) |
| C(46) | 24(1) | 29(1) | 22(1) | -3(1) | 4(1) | -1(1) |

Table 4. Hydrogen coordinates ( x $10^4$) and isotropic displacement parameters ($Å^2$x $10^3$) **for 10.**

| | x | y | z | U(eq) |
|---|---|---|---|---|
| H(1A) | 12082 | 2028 | 7877 | 67 |
| H(1B) | 11405 | 2060 | 8631 | 67 |
| H(1C) | 11033 | 2486 | 7905 | 67 |
| H(2) | 8037 | 486 | 8805 | 38 |
| H(3A) | 9950 | 387 | 9080 | 73 |
| H(3B) | 9352 | 668 | 9796 | 73 |
| H(3C) | 10022 | 1134 | 9269 | 73 |
| H(4A) | 8388 | 1821 | 9068 | 70 |
| H(4B) | 7652 | 1363 | 9561 | 70 |
| H(4C) | 7264 | 1533 | 8700 | 70 |
| H(6) | 6812 | 664 | 8029 | 46 |
| H(7) | 5530 | 239 | 7297 | 53 |
| H(8) | 5543 | -51 | 6086 | 51 |
| H(9) | 6860 | 154 | 5308 | 52 |
| H(10) | 8362 | 700 | 5508 | 46 |
| H(12B) | 9207(5) | 1549(3) | 5495(4) | 60 |
| H(12A) | 9983(4) | 1196(3) | 5356(3) | 60 |
| H(13A) | 9167 | 2317 | 6037 | 100 |
| H(13B) | 8336 | 1849 | 5572 | 100 |
| H(13C) | 9314 | 2186 | 5152 | 100 |
| H(14A) | 11086 | 2071 | 5619 | 94 |
| H(14B) | 11485 | 1529 | 6214 | 94 |
| H(14C) | 10731 | 2104 | 6482 | 94 |
| H(13D) | 10495 | 987 | 4916 | 87 |
| H(13E) | 10030 | 473 | 5487 | 87 |
| H(13F) | 11179 | 818 | 5693 | 87 |
| H(14D) | 10305 | 2341 | 6154 | 129 |
| H(14E) | 10833 | 2114 | 5385 | 129 |
| H(14F) | 11316 | 1852 | 6191 | 129 |
| H(15A) | 12833 | 95 | 7221 | 61 |

| | | | | |
|---|---|---|---|---|
| H(15B) | 12576 | 834 | 7056 | 61 |
| H(15C) | 11780 | 294 | 6689 | 61 |
| H(16A) | 11910 | 637 | 8941 | 61 |
| H(16B) | 12675 | 1023 | 8390 | 61 |
| H(16C) | 12898 | 280 | 8554 | 61 |
| H(18) | 10002 | -52 | 6958 | 47 |
| H(19) | 8969 | -981 | 7109 | 64 |
| H(20) | 9384 | -1658 | 8137 | 72 |
| H(21) | 10869 | -1433 | 8979 | 69 |
| H(22) | 11866 | -492 | 8859 | 51 |