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Journal of Organometallic Chemistry 627 (2001) 263–264

Journal of Organometallic Chemistry

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Corrigendum

Corrigendum to : "1,1′-(Pyridine-2,6-diyl)bis(3-benzyl-2,3-dihydro-1*H*-imidazol-2-ylidene), a new multidentate *N*-heterocyclic biscarbene and its silver(I) complex derivative"☆ [J. Organomet. Chem. 617–618 (2000) 395]

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Accepted 15 February 2001

Dedicated to Professor José Elguero on the occasion of his 65th birthday

The authors regret that the proposed structure for compound **7** is not correct. A double helical structure in the solid state was found for compound **7** (Fig. 1) formed by two pbbdiy moieties which bridge two silver(I) ions through carbene carbon atoms. The geometry around each silver(I) ion deviates from linearity by 14.5°.

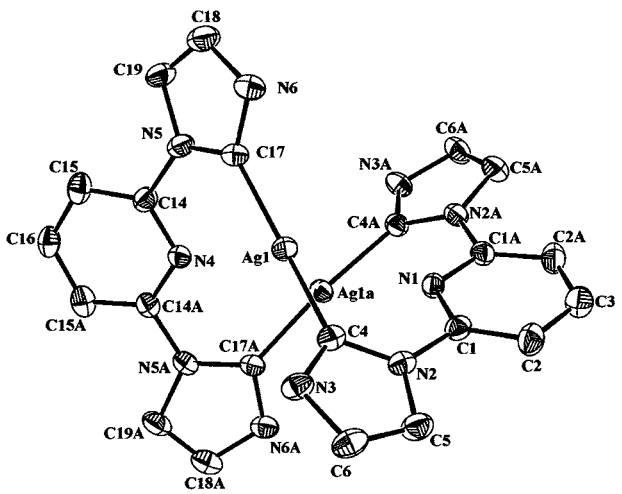

Fig. 1. ORTEP plot of the molecular structure of **7**; benzyl groups are omitted for clarity. Selected geometric parameters (Å, °) for compound **7**: Ag1–C17 2.087(4), Ag1–C4 2.080(4), N2–C4 1.362(5), N2–C5 1.393(6), N2–C1 1.430(6), N3–C4 1.351(5), N5–C17 1.357(6), N5–C14 1.422(6), N6–C17 1.353(6), N5–C17–N6 103.7(4), C17–Ag1–C4 165.5(2), N3–C4–N2 103.7(4).

FAB-MS showed mass peaks in accordance with this structure: $m/z = 1145.1$ (0.82) which corresponds to $[M - CF_3SO_3]^+$.

As a consequence of the aforementioned, the following corrections must be made.

1. The name of complex **7** is bis[μ-1,1′-(pyridine-2,6-diyl)bis(3-benzyl-2,3-dihydro-1*H*-imidazol-2-ylidene)]disilver(I) triflate.
2. $[Ag(pbbdiy)]OSO_2CF_3$ should be changed to $[Ag(\mu\text{-}pbbdiy)]_2(CF_3SO_3)_2$.
3. In the experimental section for compound **7** the following text should be added. Suitable colourless crystals for X-ray diffraction were obtained from a solution of THF–toluene by slow evaporation at room temperature. Crystallographic data for **7**: empirical formula $C_{26}H_{21}AgF_3N_5O_3S$; formula weight 648.41; crystal dimensions approximately $0.3 \times 0.2 \times 0.2$ mm. Intensity data were collected on a NONIUS-MACH3 diffractometer equipped with graphite monochromated Mo–K_α radiation ($\lambda = 0.71070$ Å) using an $\omega/2\theta$ scan technique to a maximum value of 56°. Crystals are monoclinic of space group $I2/a$ with the following cell parameters: $a = 13.819(2)$ Å, $b = 15.513(4)$ Å, $c = 24.994(8)$ Å,

☆ PII of original article: S0022-328X(00)00715-4.

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PII: S0022-328X(01)00756-2

$\beta = 94.38(3)°$, $V = 5342(2)$ Å^3, $Z = 8$; density (calculated) 1.612 g cm^{-3}. Data were corrected in the usual fashion for Lorentz and polarization effects and empirical absorption correction was not necessary ($\mu = 8.92$ cm^{-1}). The structure was solved using direct methods. Refinement on F^2 was carried out by full-matrix least-squares techniques. All non-hydrogen atoms were refined with anisotropic thermal parameters. The hydrogen atoms were included in calculated positions and were refined isotropically. Refinement (6418 reflections, 420 parameters) converged to give the following values: $R_1 = 0.0406$, $wR_2 = 0.0969$, GOF = 0.793 for 3086 reflections with $I > 2\sigma I$. Maximum and minimum residual electron densities were 0.516 and -0.627 e Å^{-3}.

4. Integrals of the ^{1}H-NMR spectrum of compound **7** should be duplicated.

1. Supplementary material

Crystallographic data for the structural analysis have been deposited with the Cambridge Crystallographic Data Centre, CCDC No. 157858 for compound **7**. Copies of this information may be obtained free of charge from The Director, CCDC, 12 Union Road Cambridge, CB2 1EZ, UK (Fax. +44-1123-336033; e-mail: deposit@ccdc.cam.ac.uk or www: http://www.ccdc.cam.ac.uk).