

Corrigendum

Corrigendum to “Complexation of phosphorus(III) with a novel tetrapyrrolic phthalocyanine-like macrocyclic compound”
[J. Photochem. Photobiol. A: Chem. 91 (1995) 99–104][☆]

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In the above named paper we reported on a compound we identified as H[TBC(OⁱPr)₄P^{III}(OH)]. We recently obtained the high-resolution MALDI time-of-flight mass spectrum on a Bruker Biflex III TOF Mass Spectrometer using α -cyano-4-hydroxy cinnamic acid as matrix. The mass peaks are (m/z, rel intensity): 795.26(48%), 777.26(100%), which should correspond to TBC(OⁱPr)₄P(OH)₂ (C₄₄H₄₂N₇O₆P, m/z 795) rather than H[TBC(OⁱPr)₄P^{III}(OH)] as reported earlier. The species can lose water to be TBC(OⁱPr)₄PO (m/z 777), the mass previously reported.

We also obtained the XPS of P atom in compound on a VG Scientific ESCALAB 220i-XL X-ray Photoelectron Spec-

trometer. The binding energy of P_{2p} electron is 133.9 eV. Generally, such value should correspond to P(V). So the compound reported as H[TBC(OⁱPr)₄P^{III}(OH)] before should be TBC(OⁱPr)₄P^V(OH)₂ (dihydroxy phosphorus (V)-2,9,16,23-tetraisopropoxy tetrabenzotriazacorrole). Its structure is shown in Fig. 1

The misinterpretation of the structure of this compound was due to the low-resolution mass spectrum obtained by FAB. However, the other conclusions reached are not vitiated. We thank Prof. Martin Gouterman (Department of Chemistry, University of Washington) for suggesting this alternative structure.

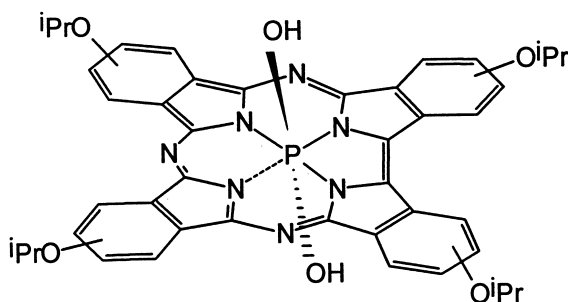


Fig. 1. Chemical structure of TBC(OⁱPr)₄P^V(OH)₂.

[☆]PII of original article: S1010-6030(95)04102-8

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