Angewandte Corrigendum

Well-Defined Copper(I) Fluoroalkoxide Complexes for Trifluoroethoxylation of Aryl and Heteroaryl Bromides

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Angew. Chem. Int. Ed. **2015**, *54*

DOI: 10.1002/anie.201501257

In this Communication, the structure of complex **1a** in Figure 1 contains an error. The correct structure contains two [CF_3CH_2O] moieties, as indicated by a revised X-ray crystal structure. The distinct proton and carbon resonance signals appear in the ^{1}H and ^{13}C NMR spectra of compound, indicative of diamagnetic copper(I) species. Deducing from the charge balance, among two [CF_3CH_2O] groups, one of them is protonated. The cocrystallized CF_3CH_2OH can be removed by washing the complex with diethyl ether and drying under vacuum overnight. The reaction exploiting [Cu(phen)$_2$(CF_3CH_2O)] (with NaO*t*Bu) has shown a similar result to that using [Cu(phen)$_2$(CF_3CH_2O)-(CF_3CH_2OH)] as described in the original paper.

Furthermore, in the Experimental Section, "CF_3CH_2OH (0.60 g, 6.0 mmol)" should be "CF_3CH_2OH (1.20 g, 12.0 mmol)" and "^{1}H NMR (400 MHz, [D_6]DMSO) δ 9.10 (s, 4H), 8.64 (d, J = 7.9 Hz, 4H), 8.12 (s, 4H), 7.89 (s, 4H), 3.86 (s, 2H). ^{19}F NMR (376 MHz, [D_6]DMSO) δ −75.4 (s, 3F)" should be "^{1}H NMR (400 MHz, [D_6]DMSO) δ 11.0 (br, 1H), 9.10 (s, 4H), 8.64 (d, J = 7.9 Hz, 4H), 8.12 (s, 4H), 7.89 (s, 4H), 3.86 (br, 4H). ^{19}F NMR (376 MHz, [D_6]DMSO) δ -75.4 (s, 6F)".

Similarly, **1c** contains about 0.5 molecule of $CF_2HCF_2CH_2OH$ as indicated by the ^{19}F NMR spectrum with *p*-(trifluoromethyl)toluene as an internal standard. For the synthesis of **1c**, "$HCF_2CF_2CH_2OH$ (0.78 g, 6.0 mmol)" should be "$HCF_2CF_2CH_2OH$ (1.56 g, 12.0 mmol)".

In the Supporting Information, on page S4, for the ^{13}C NMR data of **1b**, "155.1 (s), 155.0 (s), 154.9 (s)" should be "155.0 (m)".

The authors would like to acknowledge Dr. Peter Mueller and Dr. Fang Wang at the Massachusetts Institute of Technology for pointing out these errors which do not affect the main conclusions of the work.

