Table 1. Crystal data and structure refinement parameters for complexes

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| --- | --- |
| Empirical formula | C36 H36 Cu2 O8 |
| Formula weight, g mol−1  | 723.72 |
| Temperature, K | 296(2) |
| Wavelength, Å | 0.71073 |
| Crystal system  | Monoclinic |
| Space group  | P 21/n |
| Unit cell dimensions |  |
| *a* / Å  | 17.2182(19) |
| *b* / Å | 5.2503(4) |
| *c* / Å | 17.8257(18) |
| *α* / ° | 90 |
| *β* / ° | 98.101(4) |
| *γ* / ° | 90 |
| Volume, Å3 | 1595.4(3) |
| Z | 4 |
| Density (calculated), Mg/m3 | 1.507 |
| Absorption coefficient, mm-1 | 1.386 |
| F(000) | 748 |
| Crystal size (mm3) | 0.24 × 0.16 × 0.15 |
| *θ* range for data collection (°) | 1.539 to 27.985 |
| Index ranges | -22 ≤ h ≤ 22-4 ≤ k ≤ 6-23 ≤ l ≤ 23 |
| Reflections collected | 3839 |
| Independent reflections | 2118 |
| Completeness to θ (%) | 99.8 % |
| Refinement method | Full-matrix LS on F2 |
| Data / restraints / parameters | 2118 / 0 / 204 |
| Goodness-of-fit on F2 | 0.960 |
| Final R indices [I>2sigma(I)] | R1 = 0.1111, wR2 = 0.0483 |
| R indices (all data) | R1 = 0.1184, wR2 = 0.0907 |

Table 2: selected bond lengths and angles of the complex

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|  Distances, Å |  |
| Cu(1)-O(1) | 2.007(2) |
| Cu(1)-O(2) | 1.968(2) |
| Cu(1)-O(3) | 1.941(3) |
| Cu(1)-O(1) | 2.239(2) |
| Cu(1)-O(4) | 1.941(3) |
| Cu(1)-Cu(1) | 2.5962(8) |
|  | Angles, ° |
| O(4)-Cu(1)-O(1) | 88.15(11) |
| O(2)-Cu(1)-O(3) | 88.17(11) |
| O(1)-Cu(1)-O(2) | 169.28(9) |
| O(4)-Cu(1)-O(3) | 169.45(10) |
| O(1)-Cu(1)-O(3) | 91.20(11) |
| O(4)-Cu(1)-O(2) | 90.51(11) |
| O(1)-Cu(1)-O(3) | 95.46(10) |
| O(4)-Cu(1)-O(1) | 94.72(10) |
| O(1)-Cu(1)-O(2) | 112.33(9) |
| O(1)-Cu(1)-O(1) | 78.39(10) |