

Supplemental Figure A: Representation of Cluster A with non-hydrogen atoms shown as 50% probability ellipsoids.

Supplemental Figure B: Representation of Cluster B with non-hydrogen atoms shown as 50% probability ellipsoids.

Supplemental Figure C: Representation of Cluster C with non-hydrogen atoms shown as 50% probability ellipsoids.

Supplemental Figure D: Representation of Cluster D with non-hydrogen atoms shown as 50% probability ellipsoids.

Supplemental Figure E: Representation of Cluster E with non-hydrogen atoms shown as 50% probability ellipsoids.

Supplemental Figure F: Representation of Cluster F with non-hydrogen atoms shown as 50% probability ellipsoids.

Supplemental Figure G: Representation of Cluster G with non-hydrogen atoms shown as 50% probability ellipsoids.

Supplemental Figure H: Representation of Cluster H with non-hydrogen atoms shown as 50% probability ellipsoids.

Supplemental Figure I: Representation of Cluster I with non-hydrogen atoms shown as 50% probability ellipsoids.

Supplemental Figure J: Crystal packing diagram of 2:1 ( $\mu_4$ -oxo)-hexa( $\mu$ -chloro)-(aquo-copper(II))-tetrahydrofuran disolvate-tris(tetrahydrofuran-copper(II)):( $\mu_4$ -oxo)-hexa( $\mu$ -chloro)-tetrakis(tetrahydrofuran)-tetra-copper(II) projected down the *c* axis.





















