
Electronic Supplementary Information of

Oligocyclization of 2-(Hydroxymethyl)pyrroles with Electron-withdrawing Groups at β -Positions: Formation and Structural Elucidation of Porphyrinogens and Hexaphyrinogens

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In all drawings of the X-ray structure, whole molecules are shown by symmetry expansion when the molecules occupy special positions. Therefore, the molecular ratios in the figures are not necessarily identical with the molecular compositions of the crystals. The Ortep drawings are created by Ortep-3 program and the packing views are created by Mercury program. Disordered atoms except for pyrrolic hydrogen atoms of the porphyrins are omitted for clarity. In the case of the porphyrins, pyrrolic hydrogen atoms are placed at the all pyrrole moieties with a half occupancy. Bond lengths, angles, and torsion angles are shown in the separated CIF files.

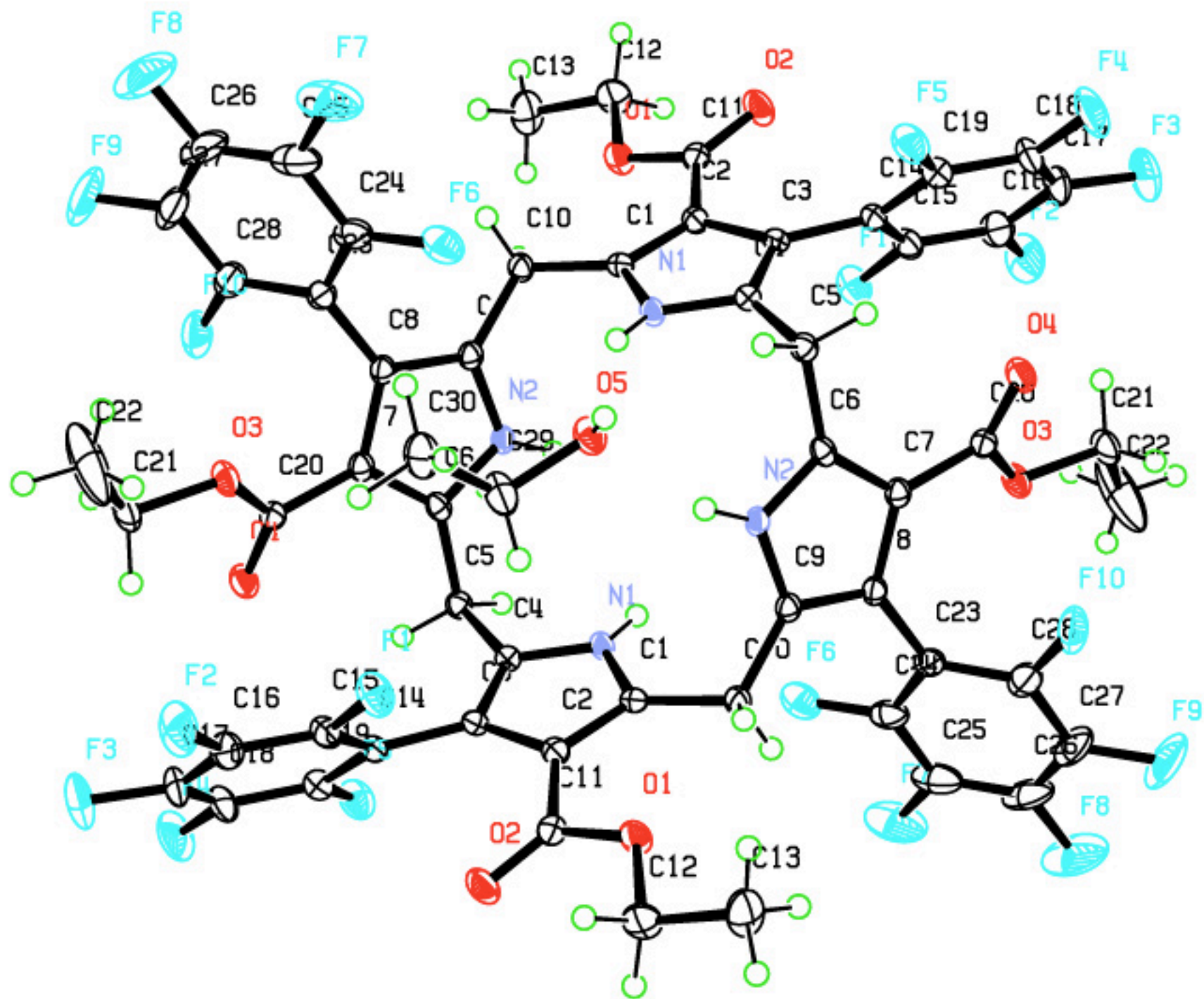


Figure 1. Ortep drawing of 3d-2EtOH

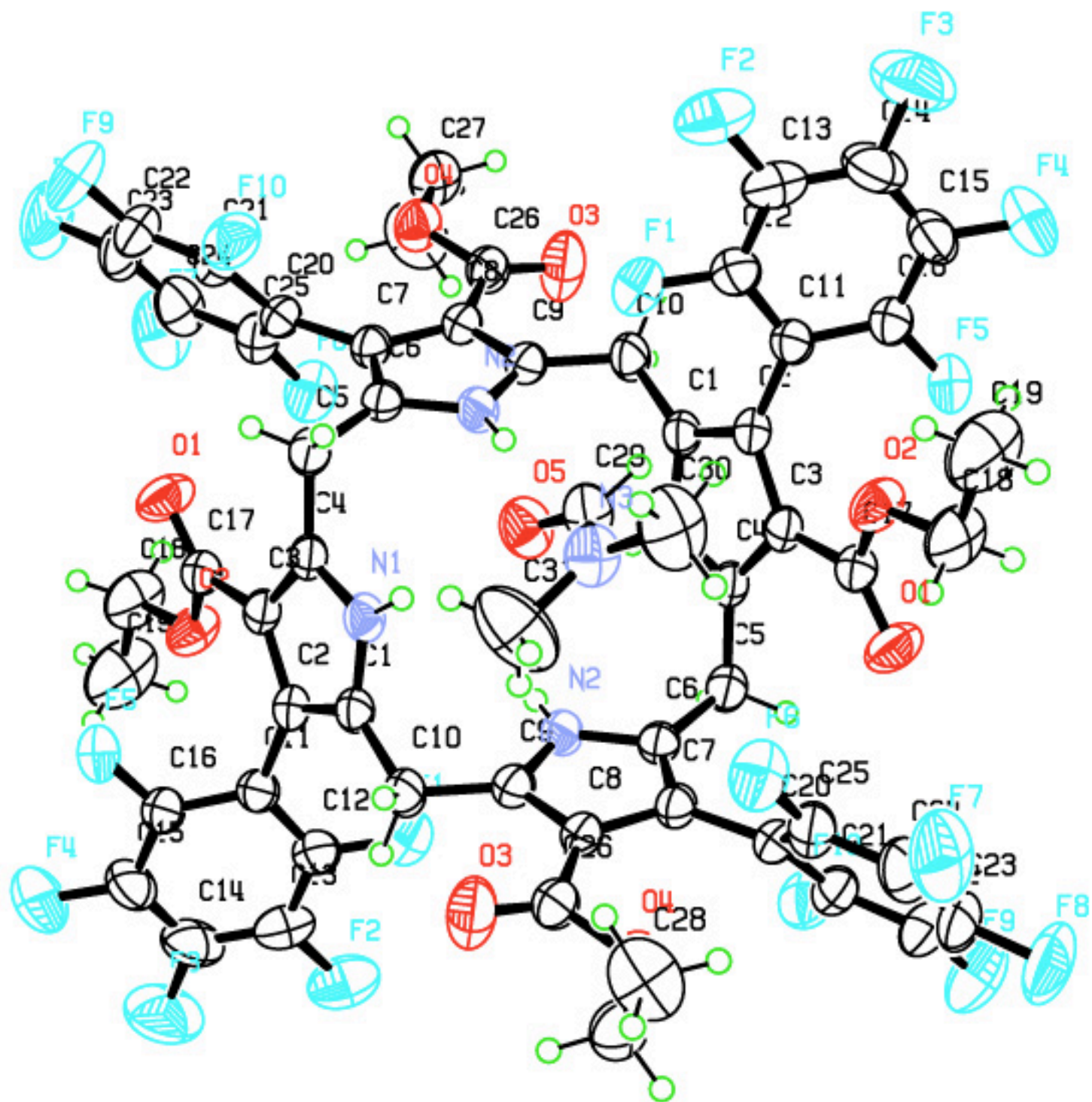


Figure 2. Ortep drawing of 3d-2DMF

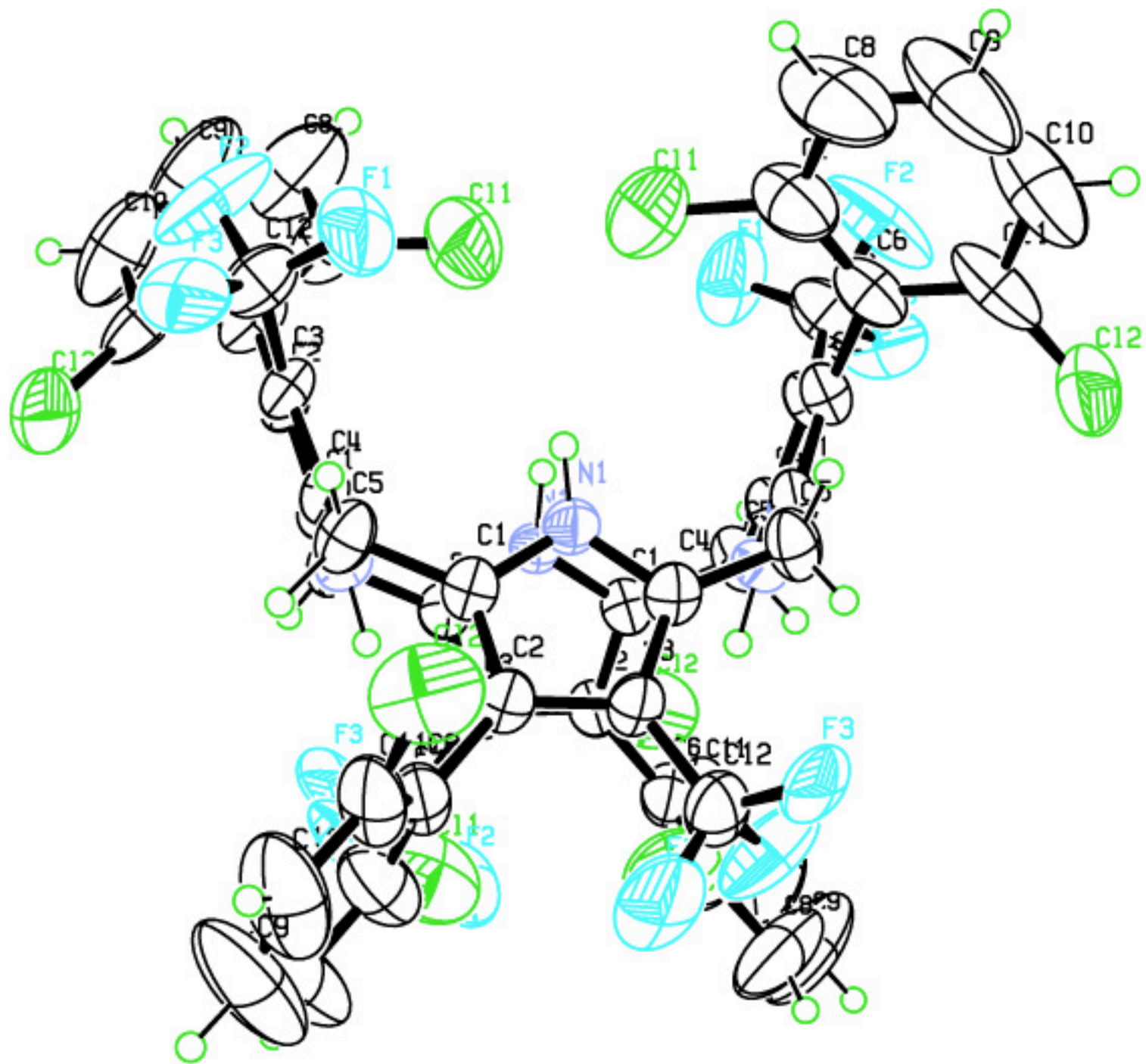


Figure 3. Ortep drawing of 3e

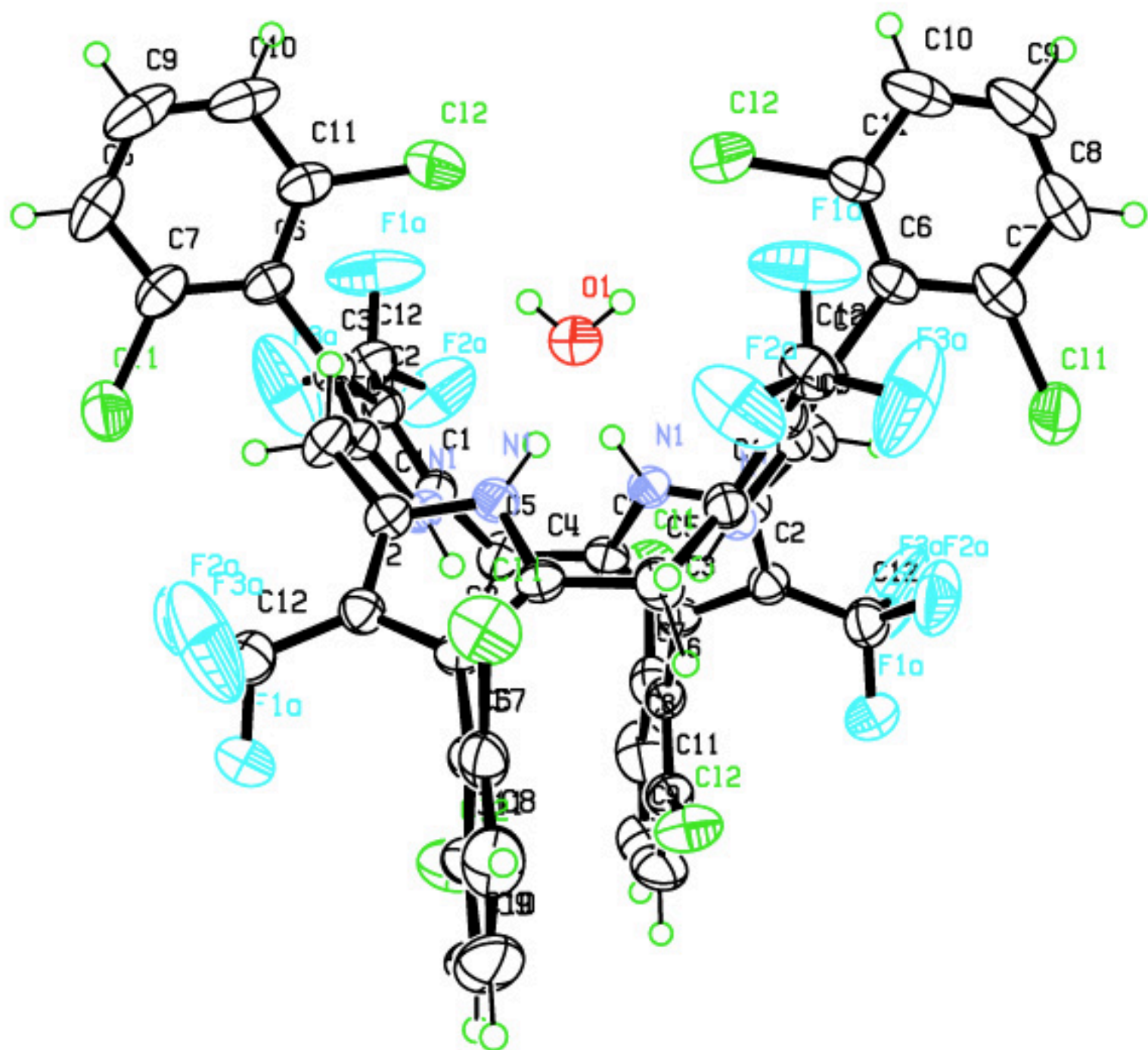


Figure 4. Ortep drawing of 3e-2H₂O

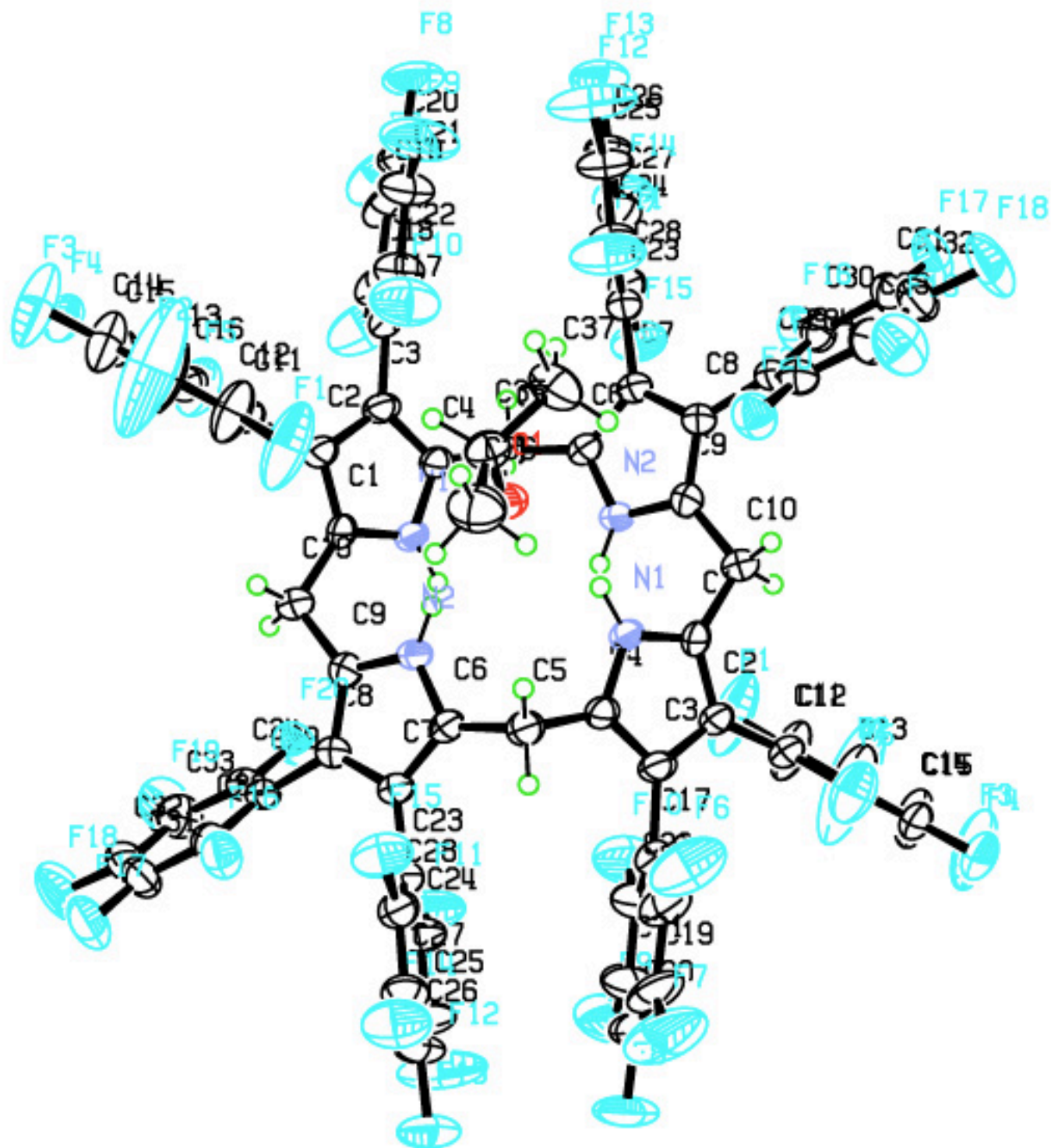


Figure 5. Ortep drawing of 3g-2(i-PrOH)

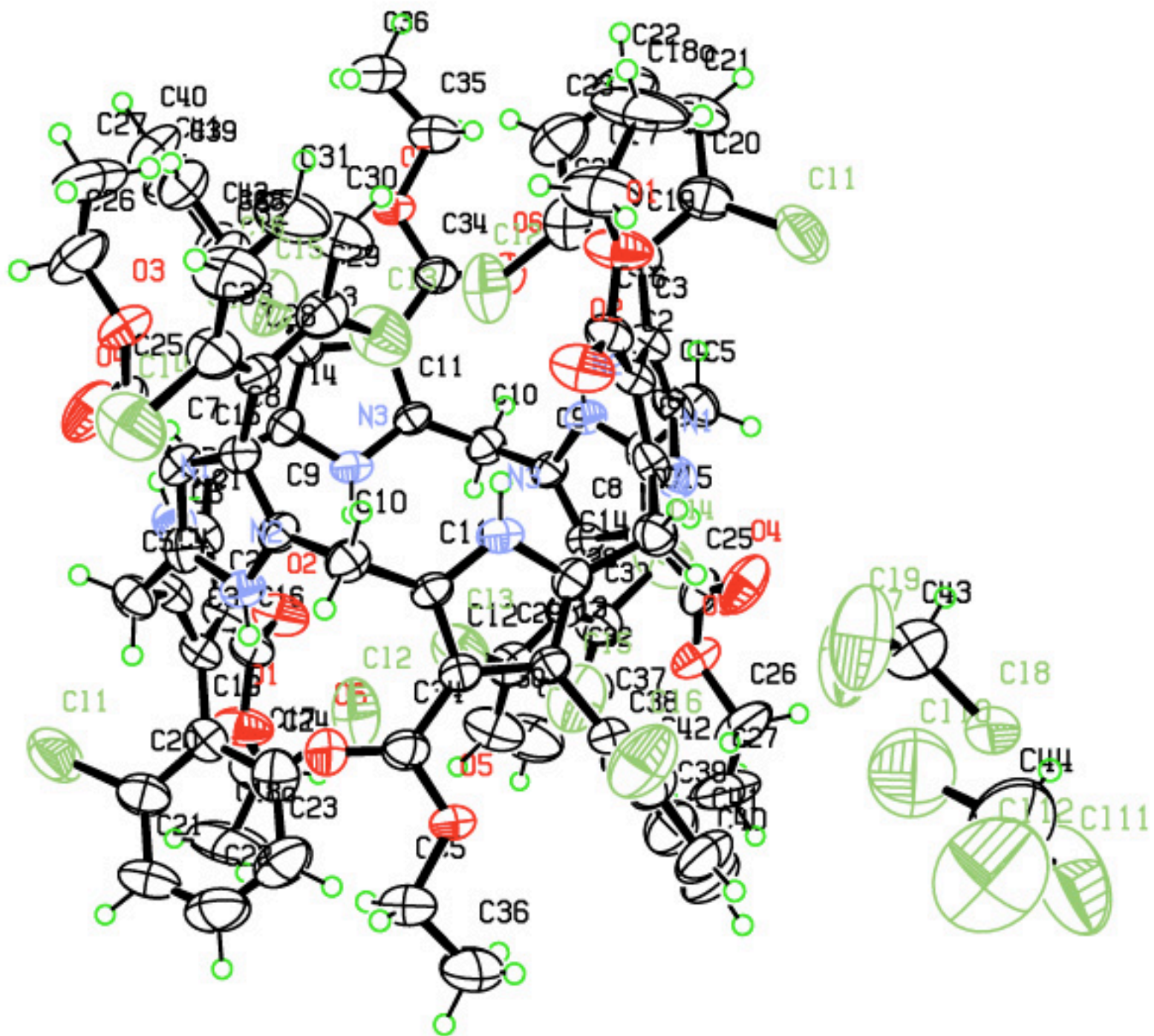


Figure 7. Ortep drawing of 4a-4CHCl₃

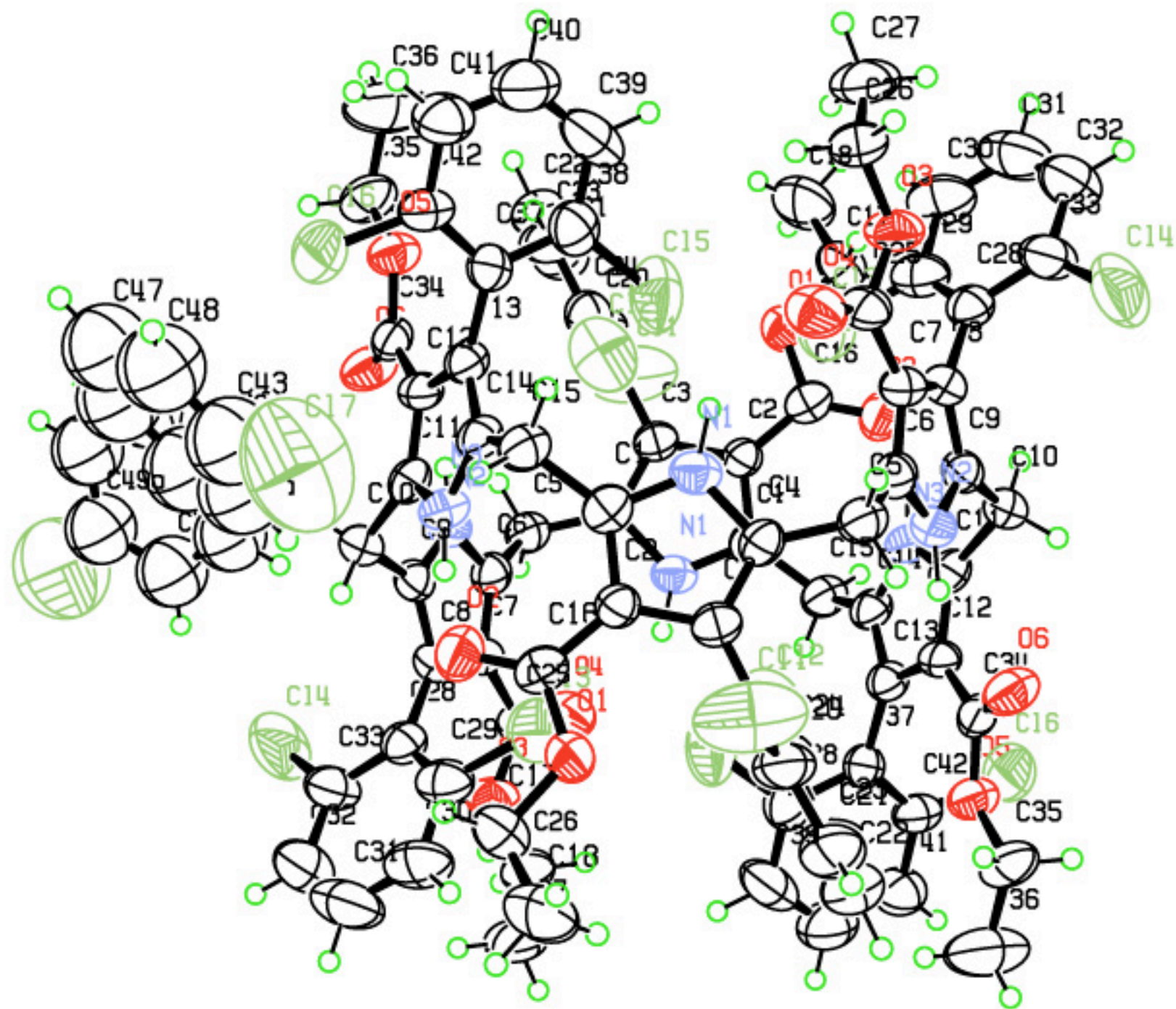


Figure 8. Ortep drawing of 4a-4PhCl

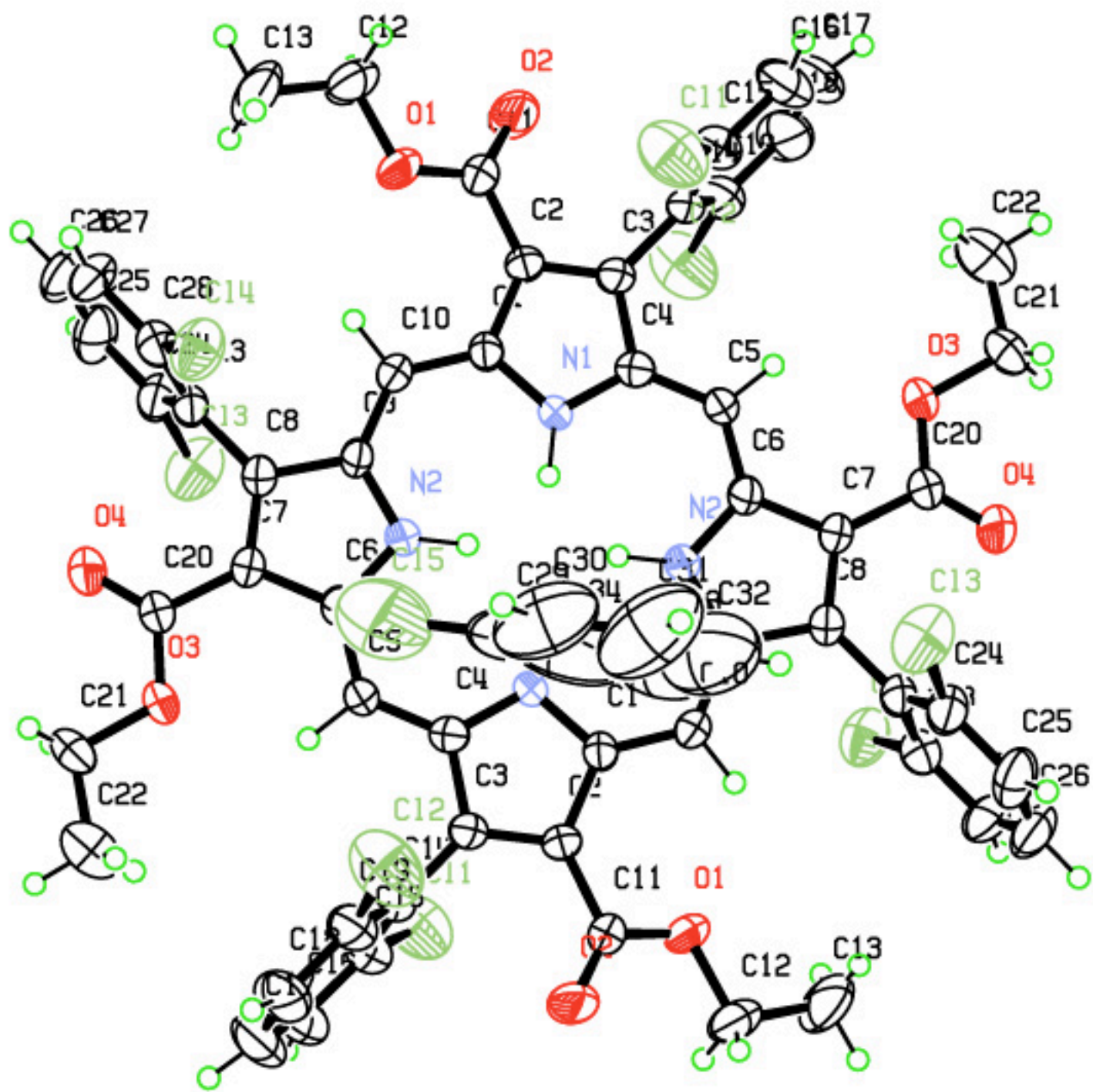


Figure 9. Ortep drawing of 5a-2PhCl

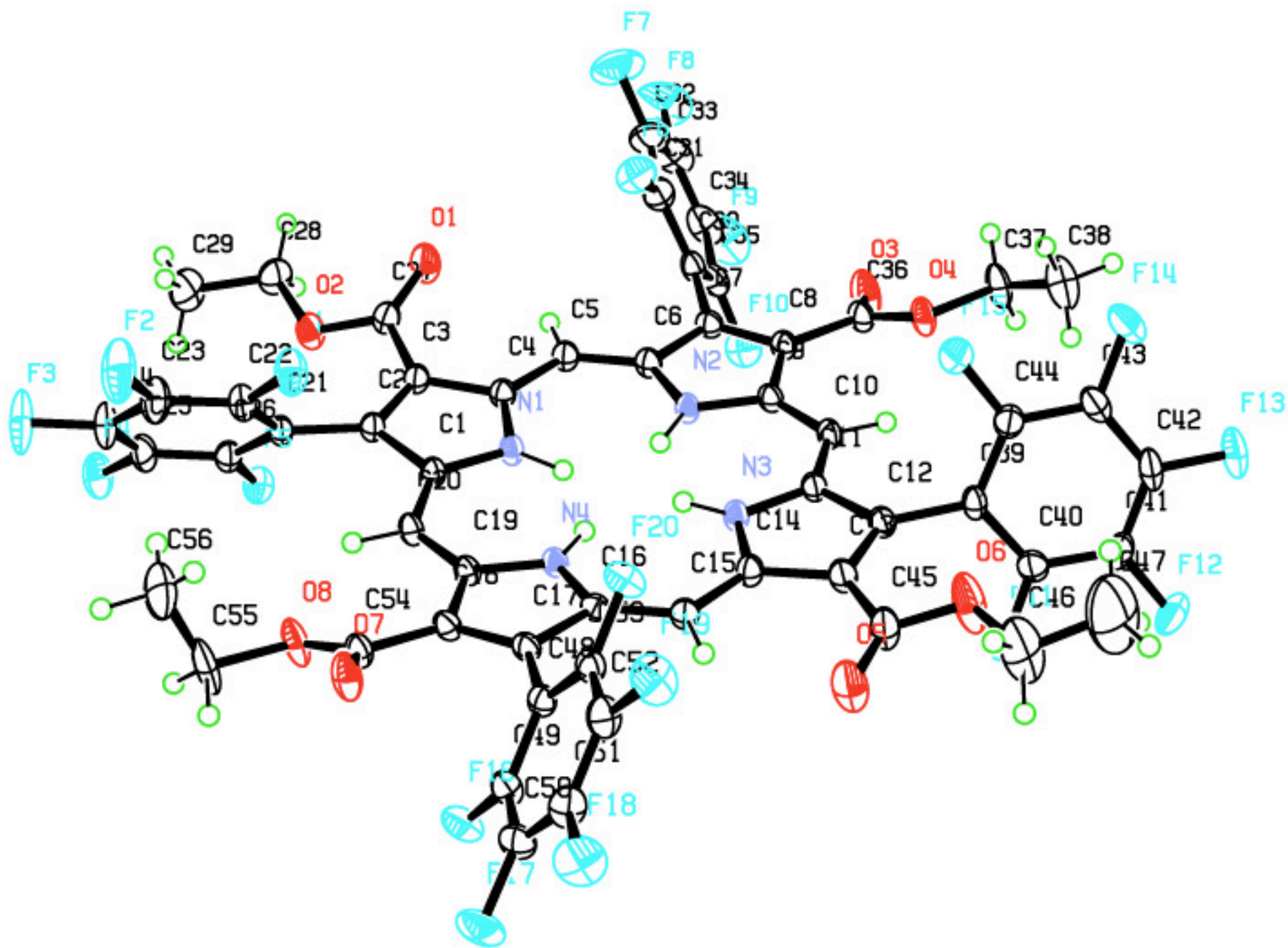


Figure 10. Ortep drawing of 5d

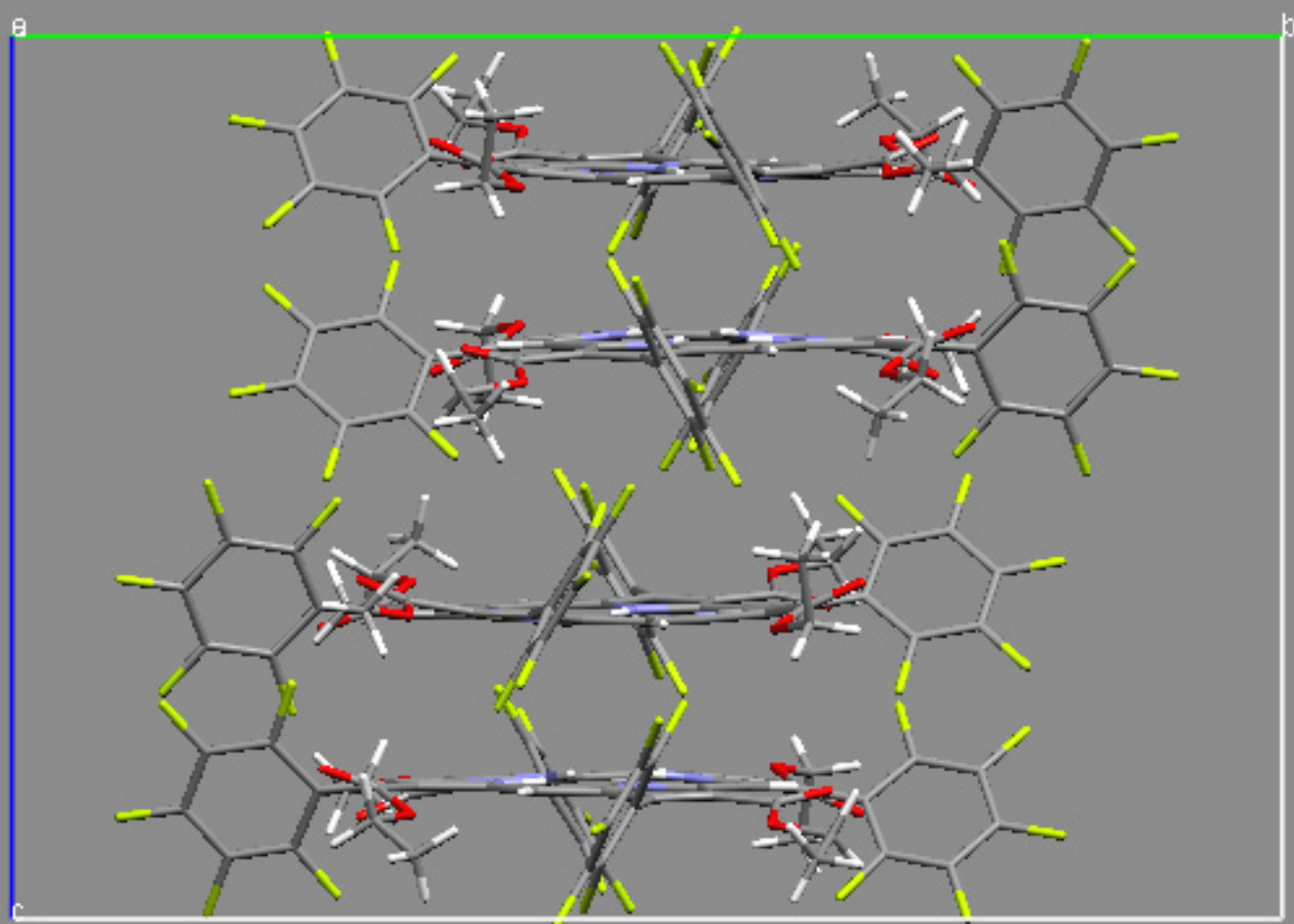


Figure 11. Crystal packing view of **5d** along *a* axis

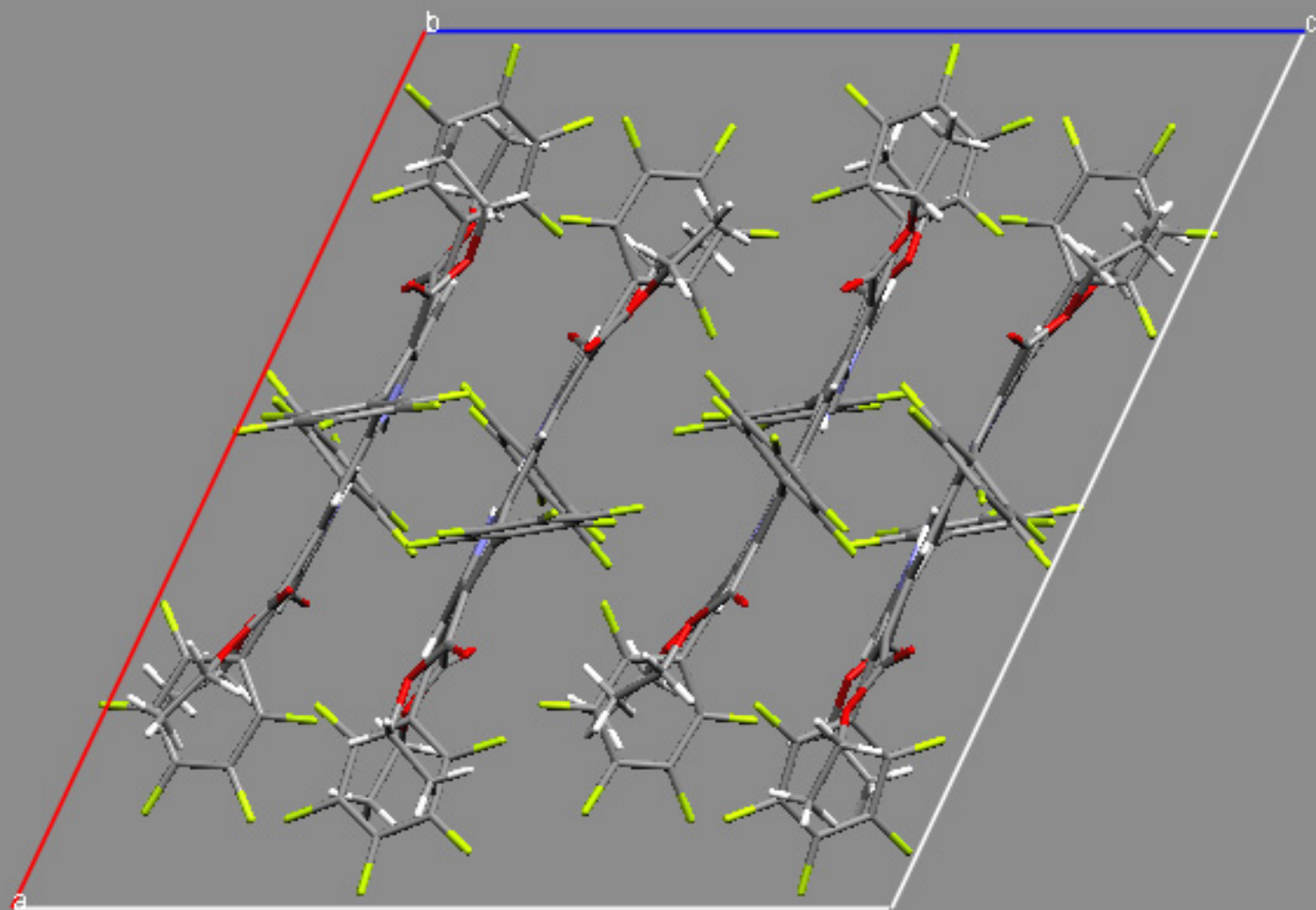


Figure 12. Crystal packing view of **5d** along *b* axis

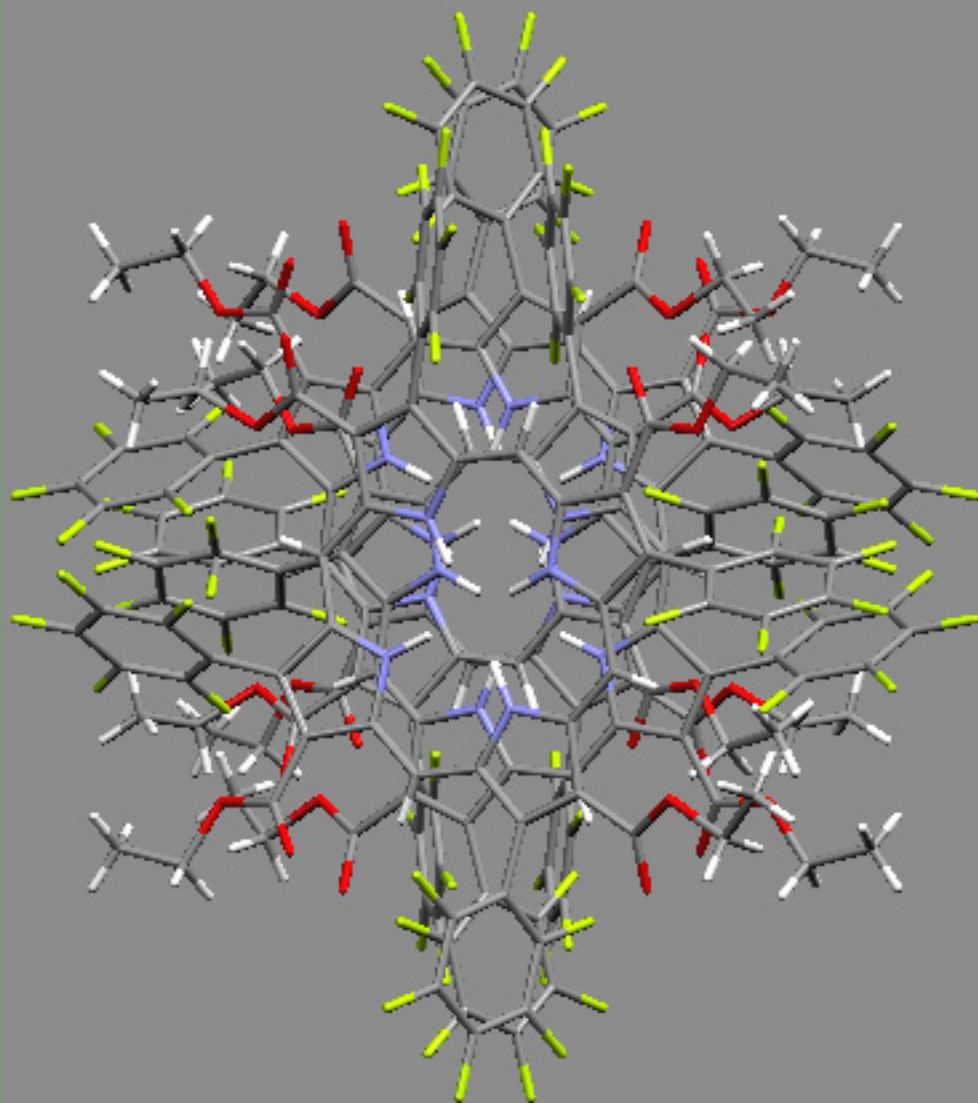


Figure 13. Crystal packing view of 5d along c axis

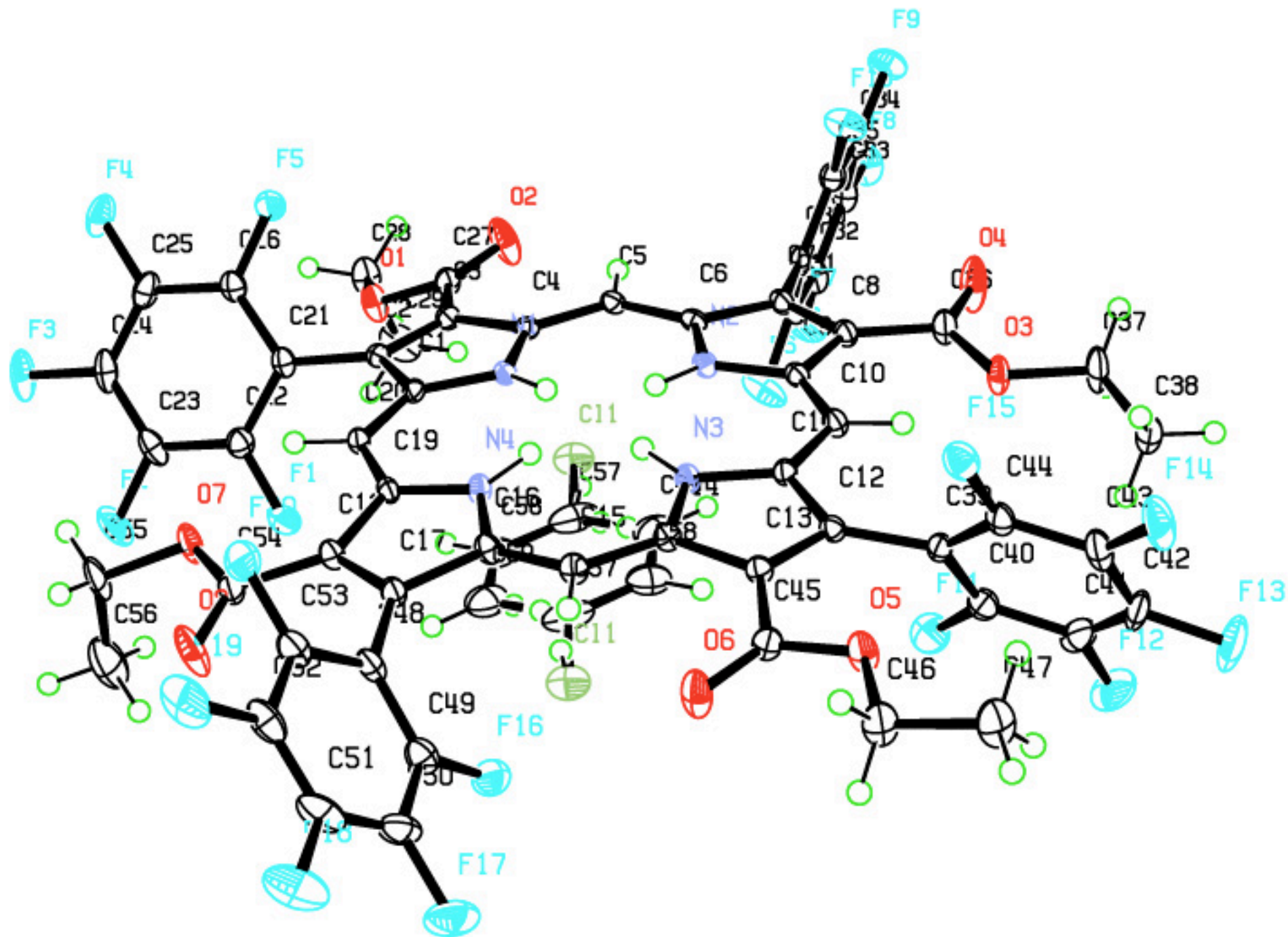


Figure 14. Ortep drawing of 5d-1/2PhCl

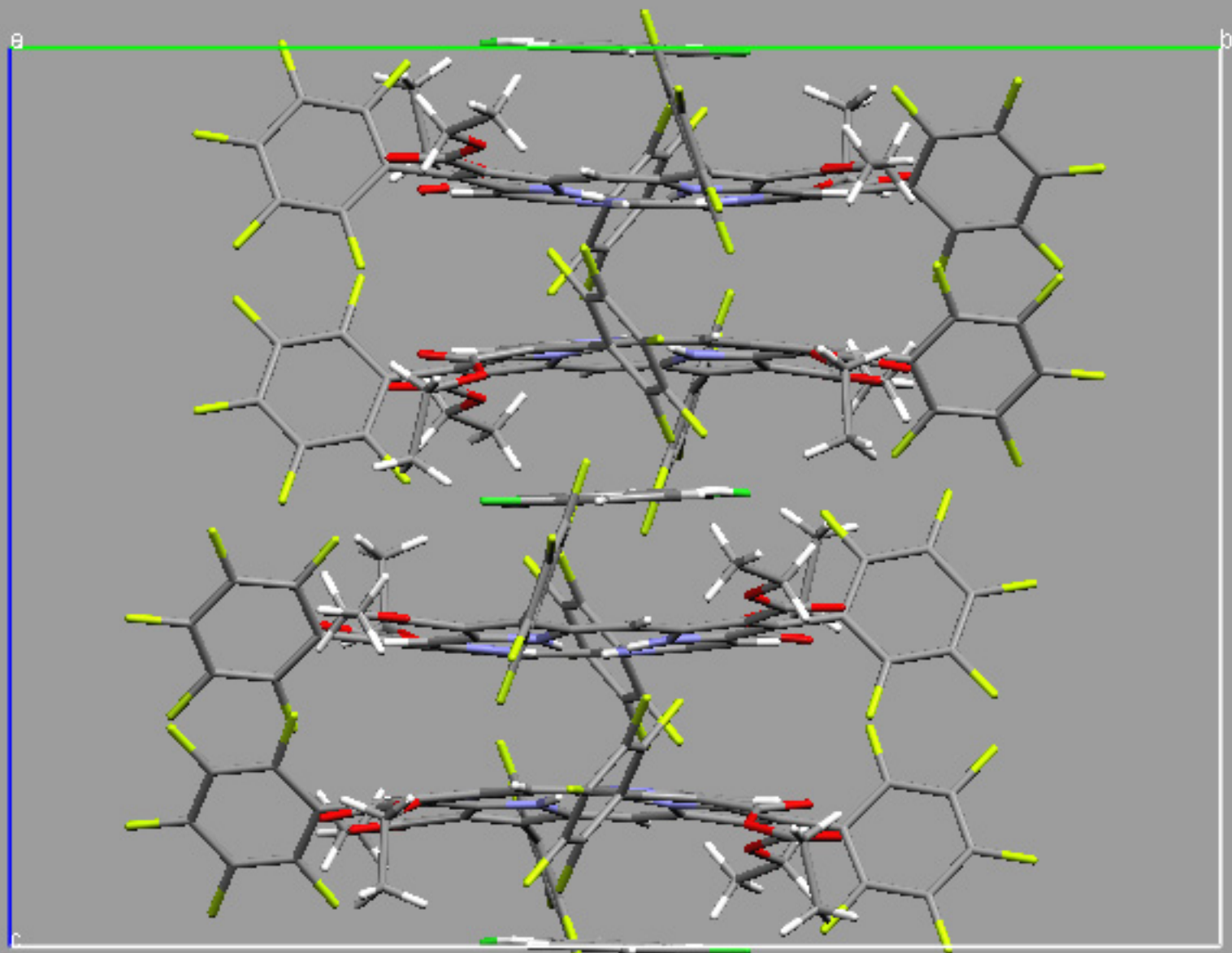


Figure 15. Crystal packing view of 5d-1/2PhCl along a axis

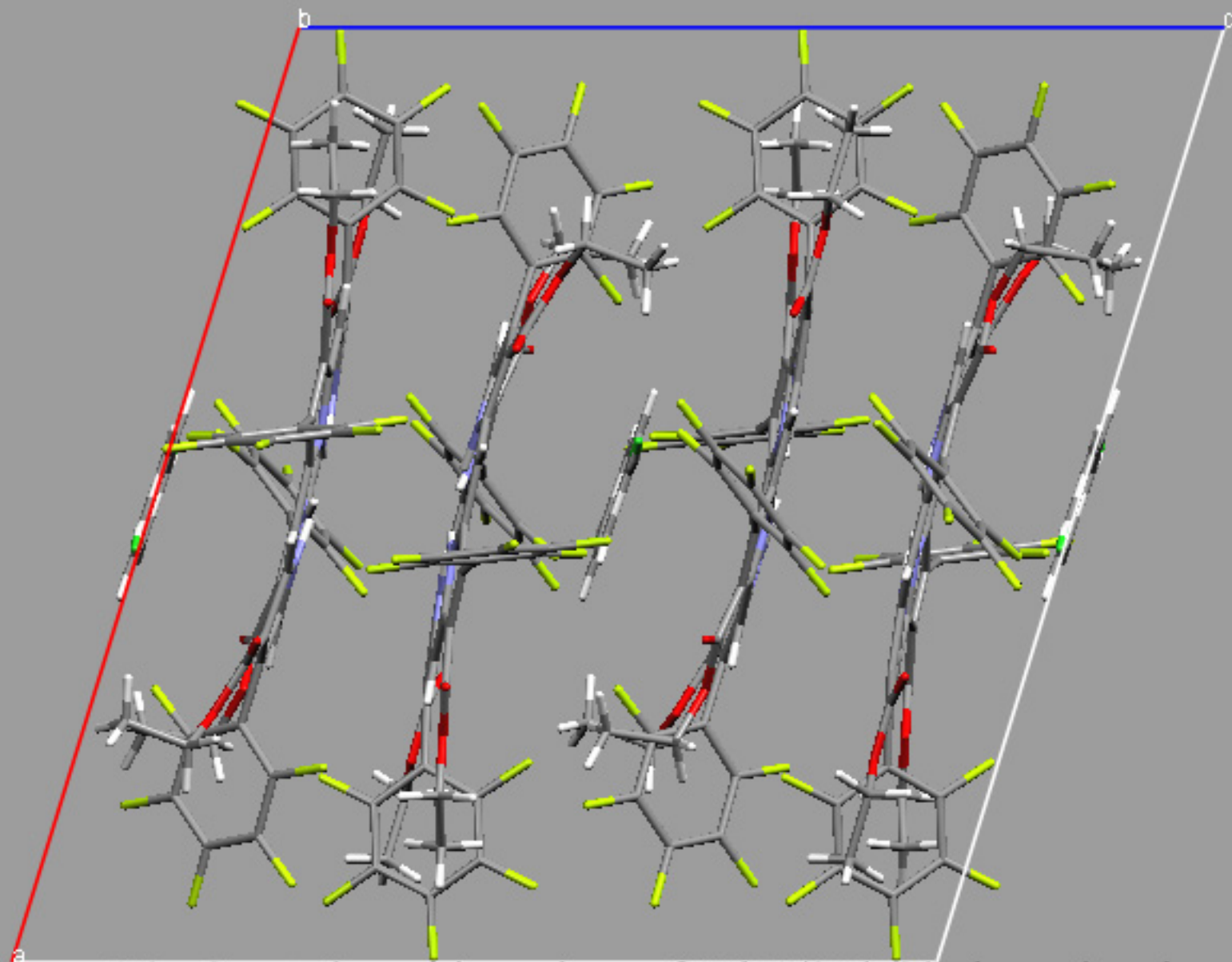


Figure 16. Crystal packing view of 5d-1/2PhCl along *b* axis

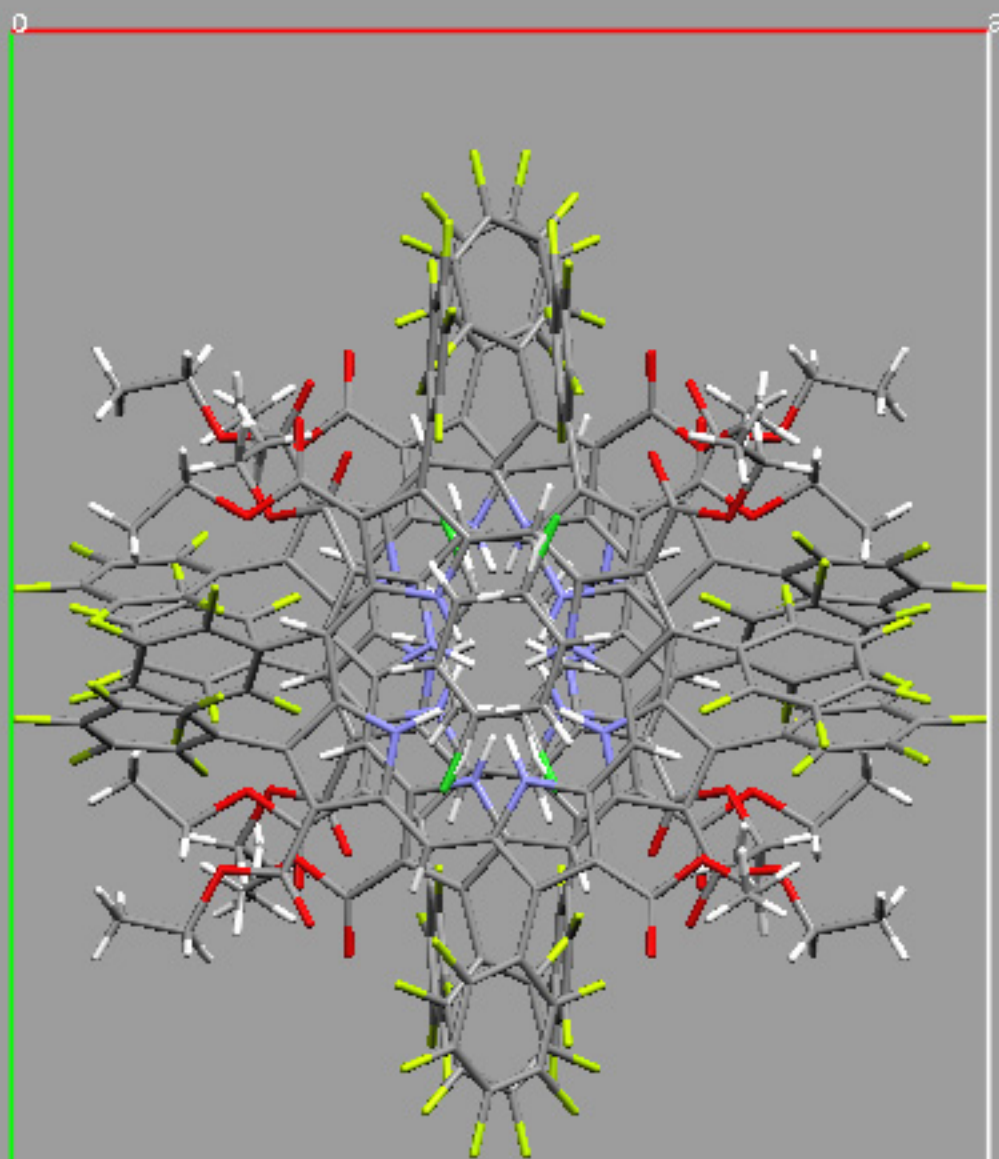


Figure 17. Crystal packing view of **5d-1/2PhCl** along *c* axis

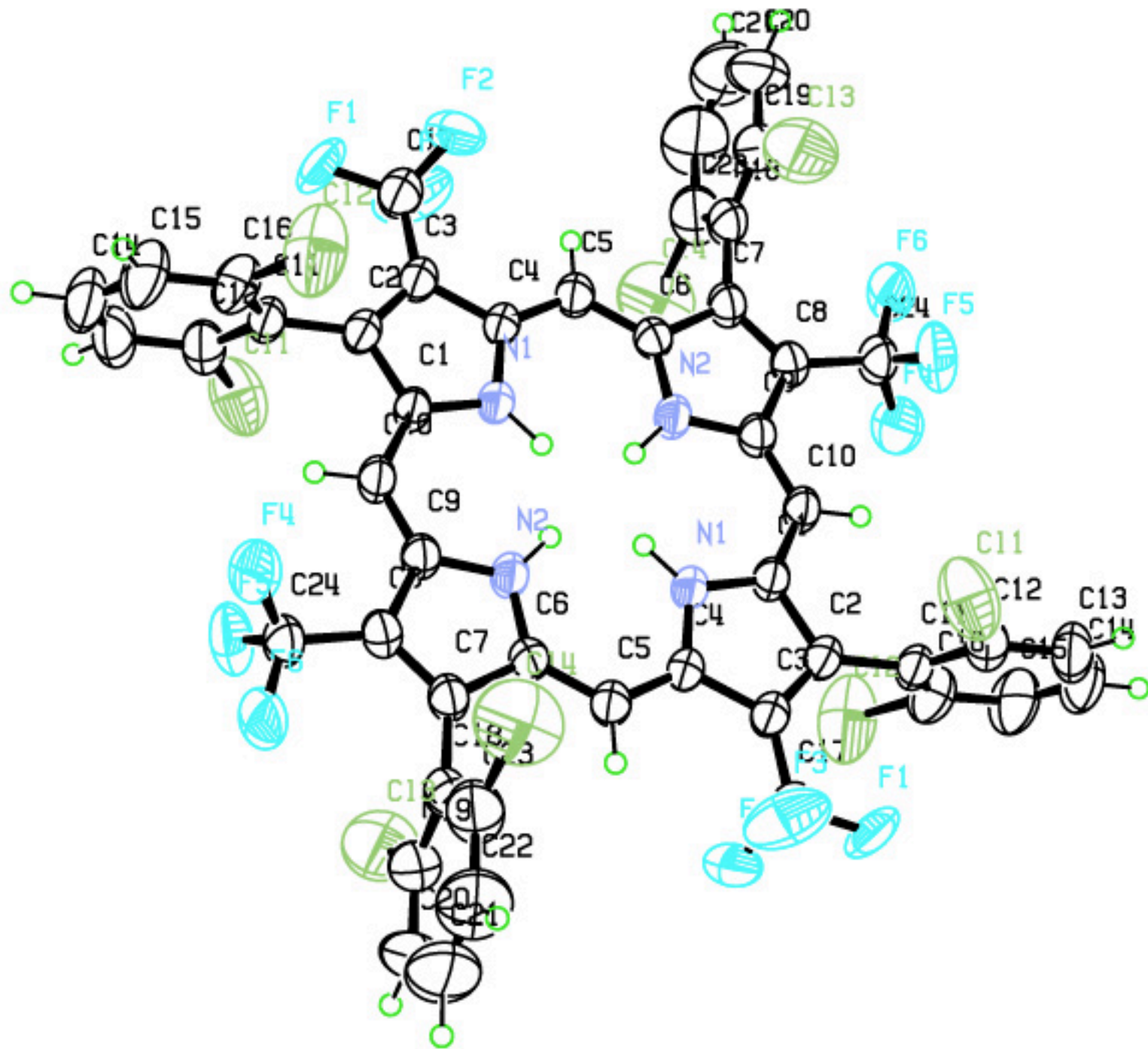


Figure 18. Ortep drawing of 5e