

## **Perbrominated 2-nitro-tetraphenylporphyrins: Synthesis, characterisation and properties**

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A new class of perbrominated 2-nitro-tetraphenylporphyrins [2-nitro-7,8,12,13,17,18-hexabromo- and 2-nitro-3,7,8,12,13,17,18-heptabromo-5,10,15,20-tetraphenylporphinato copper(II) [CuTPP(NO<sub>2</sub>)(Br)<sub>6</sub> and CuTPP(NO<sub>2</sub>)(Br)<sub>7</sub>] and their free bases and Zn(II) complexes were synthesized in good yields by the reaction of 2-nitro-5,10,15,20-tetraphenylporphinato copper(II), CuTPP(NO<sub>2</sub>) with liquid bromine followed by acid demetallation reactions. These porphyrins were characterised by UV-Visible, <sup>1</sup>H NMR, and mass spectroscopic techniques. Ligation of nitrogenous bases with ZnTPP(NO<sub>2</sub>)(Br)<sub>7</sub> complex exhibits enhanced equilibrium constant ( $K_{eq}$ ) values relative to ZnTPP(Br)<sub>8</sub> complexes.