

## Synthesis, characterizations and derivatizations of *meso*-polyhalogeno-alkyl porphyrinoïds

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Although porphyrinoïds and their derivatives have been studied for over a century, only few examples of the corresponding *meso*-perhalogeno-alkyl derivatives have been brought up to light.[1] These substituents are of particular interest because i) they increase the lipophilicity and/or the metabolic stability of aromatic macrocycles,[2] ii) they can induce non planar distortion,[3] their strong electron-withdrawing character increases the macrocycle photo-stability [4] and can improve the electro-catalytic properties of the complexes derivatives toward oxygen and/or proton reduction processes.[5] After a short presentation on the previously reported synthesis of the starting dipyrromethanes **1** and their use in the preparation of functional porphyrins **2**,[6] this presentation will focus on the preparation and complete characterization of novel *meso*-perfluoroalkyl corroles **3**. Very recent results on their derivatizations after hydrolysis or reaction with polyamines will also be enlightened.

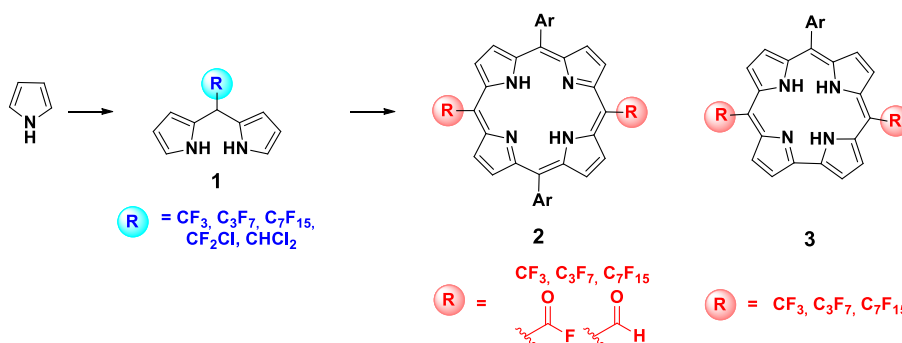


Figure: *meso*-polyhalogeno alkyl dipyrromethanes, porphyrins and corroles

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