

A tetraphenylthiaporphyrin with an inverted thiophene ring.

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A novel isomer of 5,10,15,20-tetraphenyl-21-thiaporphyrin with an inverted thiophene ring, i.e. 2-thia-5,10,15,20-tetraphenyl-21-carbaporphyrin (SCTPPH) has been produced by condensation of 2,4-bis(phenylhydroxymethyl)thiophene with pyrrole and benzaldehyde *via* a one pot, two-step reaction or by the [3 + 1] condensation of the thiophene precursor and 5,10-diphenyltripyrin. Condensation of 2,4-bis(phenylhydroxymethyl)-thiophene with pyrrole and benzaldehyde affords 2-thia-21-carba-5,10,15,20-tetraphenylporphyrin - a 21-thiaporphyrin isomer with an inverted thiophene ring.

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