Pyrrole Thioaldehyde Complexes of Nickel, Palladium and Platinum

Peter J. Pogorzelec[a], David H. Reid[b], Derek A. Tocher[c], and James D. E. T. Wilton-Ely[c]

[a] School of Chemistry, University of St. Andrews, St. Andrews, Fife KY169ST, U.K.
[b] School of Chemistry, University of the Witwatersrand, Private Bag 3, PO Wits 2050, South Africa
[c] Department of Chemistry, University College London, 20 Gordon Street, London WC1H0AJ, U. K.

Reprint requests to Dr. J. D. E. T. Wilton-Ely. E-mail: j.wilton-ely@ucl.ac.uk

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The coordination chemistry of the unusual, pyrrole-stabilised thioaldehyde molecules, 3,5-dimethylpyrrole-2-carbothioaldehyde ($HSPy^{MeHMe}$) and 3,5-dimethyl-4-ethylpyrrole-2-carbothioaldehyde ($HSPy^{MeEtMe}$) has been investigated with nickel, palladium and platinum in the complexes $[M(\kappa^2\text{-}SPy^{MeRMe})_2]$ (M = Ni, Pd, Pt; R = H, Et). The structure of the cyclometallated derivative $[Pd(\eta^2\text{-}C,N\text{-}C_6H_4CH_2NMe_2)(\kappa^2\text{-}SPy^{MeEtMe})]$ was determined by X-ray diffraction.

Key words: Mixed-Donor Ligands, Thioaldehyde, Nickel, Palladium, Platinum