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Preparation and structural characterization of a six-coordinate 21-thiaporphyrin complex : $Rh^{III}(STPP)Cl_2$ (STPP=tetraphenyl-21-thiaporphyrin anion).

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Streszczenie

Treatment of tetraphenyl-21-thiaporphyrin (STPPH) with rhodium(III) chloride In acetonitrile in the presence of metallic zinc
yields diamagnetic Rhm(STPP)Cl2. The electronic and *H NMR spectra are reported. Rhm(STPP)Cl2 crystallizes in the
monoclinic space group P2¡ with a = 10.522 (2) A, b = 13.065 (2) A, c = 12.898 (3) Á, and ß = 108.06 (2)° at 130 K with Z
= 2. Refinement of 2760 reflections and 344 parameters yielded R = 0.062. The rhodium is six-coordinate with bonds to the
three pyrrole nitrogens (Rh-N = 2.00 (1), 2.033 (9), 2.080 (8) Á), the thiophene sulfur (Rh-S = 2.32 (3) Á), and the two axial chloride ligands (Rh-Cl = 2.333 (3), 2.346 (3) Á). The rhodium atom lies near the plane of the three pyrrole nitrogen atoms, while the thiophene ring is sharply tilted out of that plane. The thiophene group is bound to the rhodium through the pyramidal sulfur in the ' fashion. The thiophene ring is bent so that the dihedral angle between the SC„C„ and C„C„CflCf

Adres publiczny

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