

Fig. 1. Molecular structure and atom-numbering scheme. Thermal ellipsoids drawn at 30% probability level.

dimethylbenzylamines (Barr, Dyke, Smith, Kennard & McKee, 1985).

The phenyl rings *A* and *B* are planar and tilted by 34·6 (2) and 47·4 (2) $^\circ$ with respect to the Pd(1) and Pd(2) mean coordination planes, respectively. The H(12)---Cl(1) and H(14)---Cl(2) distances are normal.

The crystal packing (Fig. 2) is characterized by discrete pairs of dimers which show weak intermolecular association. The shortest metal--metal contact [Pd(1)—Pd(1*a*; $-x$, $-y$, $-z + 1$), 3·620 (1) Å] is greater than 3·2 Å, the van der Waals radii sum (Pauling, 1960). There is a hydrogen bond with a solvate molecule [O(2)---O(3*a*; $-x + 1$, $-y + 1$, $-z + 1$) = 2·60 (1), O(2)---H(30) = 0·91 (1) Å; O(2)---H(30)---O(3*a*) = 173 (1) $^\circ$].

This work was supported by the Italian CNR and Ministero dell'Università e della Ricerca Scientifica e Tecnologica. We thank Johnson Matthey Research Centre, England, for the loan of PdCl_2 .

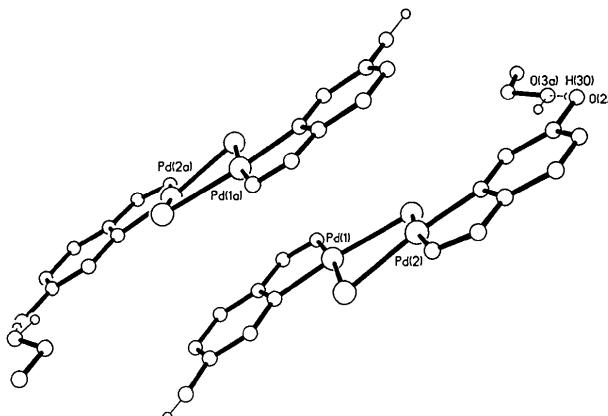


Fig. 2. A molecular dimer viewed along the *c* crystallographic axis ('free' phenyl rings removed for clarity).

References

- APPLETON, T. G., CLARK, H. C. & MANZER, L. E. (1973). *Coord. Chem. Rev.* **10**, 335–422.
- ARMENTANO, S., CRISPINI, A., DE MUNNO, G., GHEDINI, M. & NEVE, F. (1991). *Acta Cryst.* **C47**, 966–968.
- BARR, N., DYKE, S. F., SMITH, G., KENNARD, C. H. L. & MCKEE, V. (1985). *J. Organomet. Chem.* **288**, 109–117.
- CLARK, P. W., DYKE, S. F., SMITH, G., KENNARD, C. H. L. & WHITE, A. H. (1985). *Acta Cryst.* **C41**, 1742–1745.
- ELDER, R. C., CRUEA, R. D. P. & MORRISON, R. F. (1976). *Inorg. Chem.* **15**, 1623–1626.
- GHEDINI, M., ARMENTANO, S., DE MUNNO, G., CRISPINI, A. & NEVE, F. (1990). *Liq. Cryst.* **8**, 739–744.
- HOARE, R. J. & MILLS, O. S. (1972). *J. Chem. Soc. Dalton Trans.* pp. 2138–2141, 2141–2145.
- NARDELLI, M. (1983). *Comput. Chem.* **7**, 95–98.
- PAULING, L. (1960). *The Nature of the Chemical Bond*, 3rd edition, pp. 257–264. Ithaca, NY: Cornell Univ. Press.
- RYABOV, A. D. (1990). *Chem. Rev.* **90**, 403–424.
- SHELDRICK, G. M. (1989). *SHELXTL-Plus* version 3.4. Siemens Analytical X-ray Instruments Inc., Madison, Wisconsin, USA.
- WATSON, A. A., HOUSE, D. A. & STEEL, P. J. (1986). *J. Organomet. Chem.* **311**, 387–397.

Acta Cryst. (1991). **C47**, 2547–2550

Structure of a New Form of Octaethylporphyrinato(methyl)rhodium(III)

BY DONGMOK WHANG AND KIMOON KIM*

Department of Chemistry and Center for Biofunctional Molecules,
Pohang Institute of Science and Technology, PO Box 125, Pohang 790-600, Korea

(Received 13 May 1991; accepted 3 July 1991)

Abstract. $\text{C}_{37}\text{H}_{47}\text{N}_4\text{Rh}$, $M_r = 650.72$, triclinic, $P\bar{1}$, $a = 10.973$ (1), $b = 11.875$ (1), $c = 14.211$ (1) Å, $\alpha =$

108.03 (1), $\beta = 105.41$ (1), $\gamma = 100.92$ (1) $^\circ$, $V = 1616.0$ (7) Å³, $Z = 2$, $D_x = 1.337$ g cm⁻³, $\lambda(\text{Mo } K\alpha_1) = 0.7093$ Å, $\mu = 5.5$ cm⁻¹, $F(000) = 684$, $T = 295$ K, final $R = 0.044$ for 4775 reflections [$F_o > 3\sigma(F_o)$]. The

* To whom correspondence should be addressed.