

Crystallographic report

**Diiodo[tris(2-pyridyl)amine]mercury(II),
[(C₅H₄N)₃N]HgI₂**

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In mononuclear HgI₂[(C₅H₄N)₃N], mercury is tetrahedrally coordinated by two nitrogen atoms of a tris(2-pyridyl)amine ligand and two iodides. The coordination moieties are connected by weak intermolecular Hg(II)···I interactions to give a one-dimensional structure. Copyright © 2003 John Wiley & Sons, Ltd.

KEYWORDS: crystal structure; mercury complex; one-dimensional structure; pyridyl ligand

COMMENT

X-ray structure analyses reveal that [(C₅H₄N)₃N]HgI₂ (**1**) is mononuclear (Fig. 1). The mercury(II) atom is tetrahedrally coordinated to two iodides and two nitrogen atoms of the tris(2-pyridyl)amine ligand.¹ The severe distortion of the

coordination geometry can be seen from the N(2)–Hg–N(3) and I(1)–Hg–I(2) bond angles of 77.63(18)° and 140.71(2)° respectively. The mercury atoms are involved in weak intermolecular secondary interactions with the symmetry-related iodide atoms resulting in a one-dimensional (1D) chain (Fig. 1) with the intermolecular Hg···I' distances of 3.948(1) Å. Unlike the similar zinc(II) complex,² no π – π interactions are observed between the pyridyl rings.

