$NaHg_2IO_2$	*hP*18	(180) $P6_222$ – jfda

$NaHg_2O_2I$ [2]
Structural features: Infinite -Hg-O- chains with linear O-Hg-O segments; chains in consecutive layers perpendicular to [001] are rotated by 60°.

Aurivillius K. (1964) [1]
Hg_2INaO_2
a = 0.6667, c = 1.0054 nm, c/a = 1.508, V = 0.3870 nm^3, Z = 3

site	Wyck.	sym.	x	y	z	occ.	atomic environment
O1	6*j*	..2	0.1521	0.3042	$^1/_2$		tetrahedron Hg_2Na_2
Hg2	6*f*	2..	$^1/_2$	0	0.1667		colinear O_2
I3	3*d*	222	$^1/_2$	0	$^1/_2$		octahedron Hg_6
Na4	3*a*	222	0	0	0		tetrahedron O_4

Transformation from published data: origin shift 0 0 $^1/_2$
Experimental: single crystal, Weissenberg photographs, X-rays, R = 0.104

References: [1] Aurivillius K. (1964), Acta Chem. Scand. 18, 1305-1306. [2] Aurivillius K. (1960), Acta Chem. Scand. 14, 2196-2215.