

$^{204}\text{Hg}(^{18}\text{O}, ^{16}\text{O}\gamma)$ 1976He14

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 109, 1527 (2008)	31-Jan-2008

1976He14: $E(^{18}\text{O})=75$ and 81 MeV; Target: isotopically enriched in ^{204}Hg (96%); Detectors: two Ge(Li) at 0 and 90° relative to the beam direction and an annular surface barrier detector; Measured: $\gamma\gamma$ and γ -particle coincidences, E_γ .

 ^{206}Hg Levels

E(level) [†]	J^π [‡]	$T_{1/2}$ [‡]	Comments
0	0^+	8.32 min 7	
1068.0 10	2^+		
2102.0 15	5^-	2.15 μs 21	J^π : 4^+ assignment is proposed by 1976He14, based on the measured ≤ 7 ns half-life, which appears to be in error. $T_{1/2}$: < 7 ns in 1976He14 is in disagreement with the adopted value.

[†] From a least-squares fit to E_γ .

[‡] From Adopted Levels.

 $\gamma(^{206}\text{Hg})$

E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
1034 1	2102.0	5^-	1068.0	2^+	E_γ : Observed in coincidence with 1068 γ (1976He14).
1068 1	1068.0	2^+	0	0^+	

[†] From 1976He14.

 $^{204}\text{Hg}(^{18}\text{O}, ^{16}\text{O}\gamma)$ 1976He14Level Scheme