

$^{200}\text{Hg}(\alpha,\alpha')$ 1981Ba45

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 192,1 (2023)	1-Aug-2023

Beam: $E(\alpha)=24$ MeV and 27 MeV; Target: isotopically enriched to 88.58 % 12 in ^{200}Hg with a thickness of $8.4 \mu\text{g}/\text{cm}^2$ and sandwiched between thin layers of carbon; Detectors: one surface barrier detector, split-pole spectrograph; Measured: $E(\alpha)$ (FWHM=33 to 80 keV), $\sigma(\alpha,\alpha)$;

 ^{200}Hg Levels

E(level) [†]	J ^π [†]	$d\sigma/d\Omega(\alpha,\alpha')$ ($\mu\text{b}/\text{sr}$)	Comments
0.0	0 ⁺	48×10^1 5	
367.943 10	2 ⁺	113 3	
2610.42 10	3 ⁻	40 4	E(level): From 1981Ba45.

[†] From Adopted Levels, unless otherwise stated.