
 ^{160}Hf α decay

| <u>Type</u> | <u>Author</u> | <u>History Citation</u> | <u>Literature Cutoff Date</u> |
|-----------------|---------------|-----------------------------|-------------------------------|
| Full Evaluation | C. W. Reich | NDS 113, 2537 (2012) | 1-Mar-2012 |

Parent: ^{160}Hf : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=13.6$ s 2; $Q(\alpha)=4902.1$ 26; $\% \alpha$ decay= 0.7 2

^{160}Hf - $T_{1/2}$: [Additional information 1](#).

^{160}Hf - $Q(\alpha)$: [Additional information 2](#).

^{160}Hf - $\% \alpha$ decay: From $\% \alpha=0.7$ 2 ([1995Hi12](#)). Other: 0.023 6, estimated from parent-daughter activities ([1973To02](#)).

[Additional information 3](#).

Unless noted otherwise, the α -related data are from the evaluation of [1998Ak04](#).

 ^{156}Yb Levels

| <u>E(level)</u> | <u>J^π</u> |
|-----------------|---------------------------|
| 0.0 | 0^+ |

 α radiations

| <u>E_α</u> | <u>E(level)</u> | <u>I_α^\dagger</u> | <u>Comments</u> |
|------------------------------|-----------------|--------------------------------------|---|
| 4780 3 | 0.0 | 100 | E_α : From the evaluation of 1991Ry01 . This value is also the one obtained from an average of 4779 6 (1992Ha10), 4780 10 (1995Hi12), 4778 6 (1996Pa01), together with the data included in the evaluation of 1991Ry01 . I_α : α intensity per 100 α decays. I_α : Only one α group was observed. An upper limit of 0.09% of total α decay is calculated for an unobserved 4257-keV α to the 2^+ state at 536.4 keV in ^{156}Yb by requiring $\text{HF}(4257\alpha)>1$. HF : $r_0(^{156}\text{Yb})=1.548$ 20 is calculated from $\text{HF}(4780\alpha)=1.0$. |

† For absolute intensity per 100 decays, multiply by 0.007 2.