

Adopted Levels

| Type            | Author                           | History | Citation            | Literature Cutoff Date |
|-----------------|----------------------------------|---------|---------------------|------------------------|
| Full Evaluation | Coral M. Baglin, E. A. Mccutchan |         | NDS 151, 334 (2018) | 30-Jun-2018            |

S(p)=60 SY; Q( $\alpha$ )=7668 15 [2017Wa10](#)

$\Delta S(p)$ =360 ([2017Wa10](#)).

S(2p)=-1420 (syst) 360 ([2017Wa10](#)).

[2004Ke06](#):  $^{96}\text{Ru}(^{78}\text{Kr},3n)$ , E=361-391 MeV, 96.52%  $^{96}\text{Ru}$  target; RITU gas-filled separator with position-sensitive Si strip detector in focal plane; evaporation residues identified using method of position and time correlation with subsequent mother and daughter  $\alpha$  decays.

 $^{171}\text{Hg}$  Levels

| E(level) | $T_{1/2}$               | Comments  |
|----------|-------------------------|---|
| 0.0      | 59 $\mu\text{s}$ +36-16 | <p><math>\% \alpha \approx 100</math></p> <p><math>\% \alpha</math>: <math>\alpha</math> decay only has been observed (<a href="#">2004Ke06</a>). Gross <math>\beta^-</math> decay theory (<a href="#">1973Ta30</a>) predicts a partial <math>\beta^-</math> half-life of <math>\approx 0.6</math> s which implies <math>\% \epsilon + \beta^+ \approx 0.01\%</math>.</p> <p><math>T_{1/2}</math>: from <a href="#">2004Ke06</a>.</p> |