

Adopted Levels

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1041 (2013)	1-Mar-2012

$Q(\beta^-)=813$  SY;  $S(n)=5855$  SY;  $S(p)=4926$  SY;  $Q(\alpha)=6050$  SY [2012Wa38](#)  
 Estimated  $\Delta Q(\beta^-)=411$ ,  $\Delta S(n)=423$ ,  $\Delta S(p)=517$ ,  $\Delta Q(\alpha)=200$  ([2012Wa38](#)).

[Additional information 1](#).

Calculations, compilations:

Ground state properties: [1997Mo25](#), [1995Mo29](#), [2011Me01](#).

Single-particle Nilsson levels: [1994Cw02](#).

$Q(\alpha)$ ,  $T_{1/2}$ : [2011Sa40](#).

[1994Cw02](#) have calculated the following single-particle level sequence: g.s.,  $7/2[633]$ ; 0.18 MeV,  $7/2[514]$ ; 0.30 MeV,  $3/2[521]$ ; 0.30 MeV,  $1/2[521]$ ; 0.46 MeV,  $5/2[642]$ ; 0.50 MeV,  $1/2[660]$ ; 0.62 MeV,  $3/2[651]$ .

 $^{257}\text{Es}$  Levels

<u>E(level)</u>	<u><math>T_{1/2}</math></u>	<u>Comments</u>
0.0	7.7 d 2	$\% \beta^- = ?$ ; $\% \text{SF} = ?$ $J^\pi$ : possibly $7/2[633]$ from analogy with $^{253}\text{Es}$ . $T_{1/2}$ : from <a href="#">1987Po22</a> , <a href="#">1991Po17</a> (followed $\gamma$ rays accompanying $\beta$ -decay). Other: 8.7 d 9 (followed neutron activity from SF, <a href="#">1987Po22</a> ). $\% \alpha$ : calculated $T_{1/2}(\alpha) \approx 2 \times 10^6$ d ( <a href="#">1997Mo25</a> ).