

Adopted Levels

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

Q(β^-)=-2357 45; S(n)=5645 10; S(p)=4495 5Y; Q(α)=8477 6 [2012Wa38](#)
 $\Delta S(p)$ =123 syst ([2012Wa38](#)).
[Additional information 1](#).

Calculations, compilations:

Binding energy: [1997Pa22](#).

Favored α decay: [1993Bu09](#).

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

Single-particle Nilsson states: [2005Pa13](#), [2003Be67](#), [1994Cw02](#).

Q(α), half-life: [2012Po01](#), [2011Ad15](#), [2010Si27](#), [2009Do22](#), [2009Sa25](#), [2008Do12](#), [2007Sa28](#), [2007Zh41](#), [2006Ma78](#), [2006Ma78](#), [2006Ch63](#), [2001Re13](#). S(n): [2004Pa31](#), [2003Ga34](#).

[1994Cw02](#) have calculated the following single-particle level sequence: g.s., 1/2[620]; 0.01 MeV, 3/2[622]; 0.09 MeV, 11/2[725]; 0.12 MeV, 7/2[613]; 0.47 MeV, 9/2[615].

²⁵⁷No Levels

Cross Reference (XREF) Flags

- A** ²⁶¹Rf α decay (70 s)
- B** ²⁶¹Rf α decay (2.1 s)

E(level)	J $^\pi$	T _{1/2}	XREF	Comments
0	(3/2 ⁺)	24.5 s 5	AB	% α =85 15; % ϵ ≤30; %SF<1.5 Only α decay has been observed. %SF from T _{1/2} (SF)>28 min (2000Ho27 , 2000La34). % ϵ estimated in 2002Ho11 . Additional information 2 . J $^\pi$: Favored α decay to 3/2 ⁺ 3/2[622] at 124 keV in ²⁵³ Fm (2005As05). T _{1/2} : From 2005As05 . Other values: 24 s 3 (2011Ha13), 26 s 2 (1970Es02), 23 s 2 (1967Gh01), 25 s 3 (2000La34). Calculated T _{1/2} (SF)≈30 s (1985Lo17). E(level): x=239 36 from ²⁶¹ Rf α decay (70 s).
0.0+x			A	