

**<sup>136</sup>Te β<sup>-</sup>n decay (17.63 s) 1974Sh18,1993Ru01,1997Gr20**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Alexander A. Rodionov And Yuri L. Khazov		NDS 109, 517 (2008)	22-Jan-2008

Parent: <sup>136</sup>Te: E=0.0; J<sup>π</sup>=0<sup>+</sup>; T<sub>1/2</sub>=17.63 s 8; Q(β<sup>-</sup>n)=1290 40; %β<sup>-</sup>n decay=1.31 5  
<sup>136</sup>Te-%β<sup>-</sup>n decay: %β<sup>-</sup>n=1.31 5 from 1993Ru01. Others: 1.26 20 (2002Pf04 evaluation), 1.7 8 (1978Cr03), 0.7 4 (1977Ru04).  
 1974Sh18: measured E(n), neutron intensities.  
 1993Ru01, 1977Ru04: measured T<sub>1/2</sub>, %β<sup>-</sup>n.  
 1997Gr20: measured E(n), neutron intensities.  
 Others: 1997Gr20, 1979KrZT, 1980HeZT, 1978Cr03, 1976Lu02, 1974Ru08.  
 Additional information 1.

<sup>135</sup>I Levels

E(level)	J <sup>π</sup>
0.0	7/2 <sup>+</sup>

Delayed Neutrons (<sup>135</sup>I)

Average <E<sub>n</sub>>=325 25 (1979KrZT), ≈485 (deduced by evaluators from neutron energies and intensities data of 1997Gr20).

E(n) <sup>†</sup>	E( <sup>135</sup> I)	I(n) <sup>†‡</sup>	Comments
56		8.5 16	E(n): mid point of E(n)=48.9 to 62.7.
71		4.2 9	E(n): mid point of E(n)=62.7 to 80.2.
92		1.4 4	E(n): mid point of E(n)=80.2 to 102.7.
117		0.6 4	E(n): mid point of E(n)=102.7 to 131.4.
150		1.4 10	E(n): mid point of E(n)=131.4 to 168.2.
192		1.4 3	E(n): mid point of E(n)=168.2 to 215.3.
245		4.8 13	E(n): mid point of E(n)=215.3 to 275.6. E(n): 251 (1974Sh18).
314		8.1 17	E(n): mid point of E(n)=275.6 to 352.8. E(n): 313 (1974Sh18).
402		20 3	E(n): mid point of E(n)=352.8 to 451.7. E(n): 429 (1974Sh18).
515		18 3	E(n): mid point of E(n)=451.7 to 578.2. E(n): 466, 525 (1974Sh18).
659		9.8 24	E(n): mid point of E(n)=578.2 to 740.1. E(n): 593, 692 (1974Sh18).
844		16 3	E(n): mid point of E(n)=740.1 to 947.4. E(n): 766 (1974Sh18).
1080		5.8 19	E(n): mid point of E(n)=947.4 to 1212.7.

<sup>†</sup> From 1997Gr20. E(n) values from 1974Sh18 are given under comments. 1997Gr20 mention that there May Be some contribution from delayed neutrons from <sup>136</sup>Sb decay, but based on comparison with neutron spectra from 1974Sh18, 1974Ru08 and 1989BrZL, the contribution from <sup>136</sup>Sb β<sup>-</sup>n decay is expected to Be negligible.

<sup>‡</sup> For absolute intensity per 100 decays, multiply by 0.0131 5.