^{17}C β^- decay 1993Ti07

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, D. R. Tilley, H. R. Weller and C. M. Cheves	NP 564,aaaaaaaaaaaaaaaaaaaaaaaal 1 (1993)	31-Dec-1992

Parent: ^{17}C: E=0.0; $T_{1/2}$=193 ms *13*; Q(β^-)=13160 *40*; %β^- decay=100.0

^{17}N Levels

E(level)	J$^\pi$
0.0	1/2$^-$
1373.9 *3*	3/2$^-$
1849.6 *3*	1/2$^+$
1906.8 *3*	
2526.0 *5*	

β^- radiations

E(decay)	E(level)	Iβ^-[†][‡]	Log *ft*	Comments
(1.063×10^4 *4*)	2526.0	13 *6*	5.45 *21*	av Eβ=5077 *20*
(1.125×10^4 *4*)	1906.8	14 *6*	5.54 *19*	av Eβ=5384 *20*
(1.131×10^4 *4*)	1849.6	27 *5*	5.26 *9*	av Eβ=5413 *20*
(1.179×10^4 *4*)	1373.9	14 *7*	5.63 *22*	av Eβ=5649 *20*

[†] From relative β^- feedings given in table 17.1 renormalized to Σ (Iβ)=68% 3, given %β^-n=32 *3*.
[‡] Absolute intensity per 100 decays.

γ(^{17}N)

E$_\gamma$	I$_\gamma$[†]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
475.7 *3*	3.4 *9*	1849.6	1/2$^+$	1373.9	3/2$^-$
532.9 *3*	2.1 *17*	1906.8		1373.9	3/2$^-$
619.2 *5*	5.3 *25*	2526.0		1906.8	
676.4 *5*	1.6 *8*	2526.0		1849.6	1/2$^+$
1152.1 *5*	4.4 *21*	2526.0		1373.9	3/2$^-$
1373.8 *3*	24 *8*	1373.9	3/2$^-$	0.0	1/2$^-$
1849.5 *3*	22 *5*	1849.6	1/2$^+$	0.0	1/2$^-$
1906.7 *3*	7 *5*	1906.8		0.0	1/2$^-$
2525.8 *5*	1.4 *7*	2526.0		0.0	1/2$^-$

[†] Absolute intensity per 100 decays.

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Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays