

Adopted Levels, Gammas 1991Aj01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. Ajzenberg-selove	NP A523,1 (1991)	1-Jul-1990

Q(β⁻)=9771.7 8; S(n)=1218.1 8; S(p)=21080 22; Q(α)=-12728.9 9 [2012Wa38](#)

Note: Current evaluation has used the following Q record 9771.7 8 1218.1 8 21080 21-12726. 6 [1997Au04](#).

[Additional information 1.](#)

¹⁵C Levels

Cross Reference (XREF) Flags

A	⁹ Be(⁷ Li,p)	E	¹⁴ C(¹³ C, ¹² C)
B	¹³ C(t,p)	F	¹⁵ N(π ⁻ ,γ)
C	¹³ C(α,2p)	G	¹⁶ O(⁷ Li, ⁸ B)
D	¹⁴ C(d,p)		

E(level)	J ^π	T _{1/2}	XREF	Comments
0.0	1/2 ⁺	2.449 s 5	ABCDE G	%β ⁻ =100 T=3/2; μ=1.32 7 (1989Ra17) T _{1/2} : From 1979Al23. Other:2.46 s 1 (1970Al21). μ=-1.76 3 (1989Ra17)
740.0 15	5/2 ⁺	2.61 ns 7	ABC EF	
3103 † 4	1/2 ⁻	≤40 keV	AB G	
4220 † 3	5/2 ⁻	≤14 keV	AB	
4657 † 9	3/2 ⁻		AB	
478×10 ¹ † 10	3/2 ⁺	1740 keV 400	D	
5833 † 20	(3/2 ⁺)	64 keV 8	A D	
5866 † 8	1/2 ⁻		AB	
6358 † 6	(5/2,7/2 ⁺ ,9/2 ⁺)	<20 keV	AB	
6417 † 6	(3/2 to 7/2)	≈50 keV	AB	
6449 † 7	(9/2 ⁻ ,11/2)	<14 keV	AB	
6536 † 4		<14 keV	AB	
6626 † 8	(3/2)	20 keV 10	AB	
6841 † 4		<14 keV	AB	
6881 † 4	(9/2)	<20 keV	AB	
7095 † 4	(3/2)	<15 keV	AB	
7352 † 6	(9/2,11/2)	20 keV 10	A C	
7414 † 20			A	
7750 † 30			A	Broad or unresolved state.
8010 † 30			A	
8110 † 10			A	Broad or unresolved state.
8470 † 15	(9/2 to 13/2)	40 keV 15	A	
8559 † 15	(7/2 to 13/2)	40 keV 15	A	
9000 † 30			A	
9730? † 30			A	
9789 † 20	(9/2 to 15/2)	20 keV 15	A	
10248 † 20	(5/2 to 9/2)	20 keV 15	A	
11015 † 25			A	
11123 † 25	(11/2 to 19/2)	30 keV 20	A	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas 1991Aj01 (continued) ^{15}C Levels (continued)

<u>E(level)</u>	<u>J^π</u>	<u>T_{1/2}</u>	<u>XREF</u>
11680?† 30			A
11825† 20	≥13/2	70 keV 30	A

† Decay mode not specified.

 $\gamma(^{15}\text{C})$

<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_γ</u>	<u>I_γ</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.</u>	<u>Comments</u>
740.0	5/2 ⁺	740.0	15	0.0	1/2 ⁺	[E2]	B(E2)(W.u.)=0.44 1

Adopted Levels, Gammas 1991Aj01Level Scheme

Intensities: Relative photon branching from each level

