

Table 15.1 from (1991AJ01): Energy levels of ^{15}C ^a

E_x (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
g.s.	$\frac{1}{2}^+; \frac{3}{2}$	$\tau_{1/2} = 2.449 \pm 0.005$ s $ g = 2.63 \pm 0.14$	β^-	1, 2, 3, 4, 6, 7, 9
0.7400 \pm 1.5	$\frac{5}{2}^+$	$\tau_m = 3.76 \pm 0.10$ ns $g = -0.703 \pm 0.012$	γ	2, 3, 4, 7, 8
3.103 \pm 4	$\frac{1}{2}^-$	$\Gamma_{\text{c.m.}} \leq 40$		2, 3, 9
4.220 \pm 3	$\frac{5}{2}^-$	< 14		2, 3
4.657 \pm 9	$\frac{3}{2}^-$			2, 3
4.78 \pm 100	$\frac{3}{2}^+$	1740 \pm 400		6
5.833 \pm 20	$(\frac{3}{2}^+)$	64 \pm 8		2, 6
5.866 \pm 8	$\frac{1}{2}^-$			2, 3
6.358 \pm 6	$(\frac{5}{2}, \frac{7}{2}^+, \frac{9}{2}^+)$	< 20		2, 3
6.417 \pm 6	$(\frac{3}{2} \rightarrow \frac{7}{2})$	≈ 50		2, 3
6.449 \pm 7	$(\frac{9}{2}^-, \frac{11}{2})$	< 14		2, 3
6.536 \pm 4	a	< 14		2, 3
6.626 \pm 8	$(\frac{3}{2})$	20 \pm 10		2, 3
6.841 \pm 4	a	< 14		2, 3
6.881 \pm 4	$(\frac{9}{2})^a$	< 20		2, 3
7.095 \pm 4	$(\frac{3}{2})$	< 15		2, 3
7.352 \pm 6	$(\frac{9}{2}, \frac{11}{2})$	20 \pm 10		2, 4
7.414 \pm 20				2
7.75 \pm 30 ^b				2
8.01 \pm 30				2
8.11 \pm 10 ^b				2
8.47 \pm 15	$(\frac{9}{2} \rightarrow \frac{13}{2})$	40 \pm 15		2
8.559 \pm 15	$(\frac{7}{2} \rightarrow \frac{13}{2})$	40 \pm 15		2
9.00 \pm 30				2
(9.73 \pm 30)				2
9.789 \pm 20	$(\frac{9}{2} \rightarrow \frac{15}{2})$	20 \pm 15		2
10.248 \pm 20	$(\frac{5}{2} \rightarrow \frac{9}{2})$	20 \pm 15		2
11.015 \pm 25				2
11.123 \pm 20	$(\frac{11}{2} \rightarrow \frac{19}{2})$	30 \pm 20		2
(11.68 \pm 30)				2
11.825 \pm 20	$\geq \frac{13}{2}$	70 \pm 30		2

^a See also [Tables 15.2](#) and [15.3](#) and [reaction 8](#).

^b Broad or unresolved states.