

Table 15.17 from (1991AJ01): Radiative decays in ^{15}O ^a

E_i (MeV)	J_i^π	E_f (MeV)	J_f^π	Branch (%)	δ^b
5.24	$\frac{5}{2}^+$	0	$\frac{1}{2}^-$	100	$+0.10 \pm 0.04$ (E3/M2)
6.18 ^c	$\frac{3}{2}^-$	0	$\frac{1}{2}^-$	100	-0.125 ± 0.007 (E2/M1) ^k
6.79 ^d	$\frac{3}{2}^+$	0	$\frac{1}{2}^-$	100	-0.02 ± 0.02 (M2/E1)
6.86 ^e	$\frac{5}{2}^+$	5.24	$\frac{5}{2}^+$	100	$+0.04 \pm 0.03$ (E2/M1)
7.28 ^f	$\frac{7}{2}^+$	0	$\frac{1}{2}^-$	3.8 ± 1.2	
		5.24	$\frac{5}{2}^+$	96.2 ± 1.2	
7.56 ^g	$\frac{1}{2}^+$	0	$\frac{1}{2}^-$	3.5 ± 0.5	
		5.18	$\frac{1}{2}^+$	15.8 ± 0.6	
		6.18	$\frac{3}{2}^-$	57.5 ± 0.4	
		6.79	$\frac{3}{2}^+$	23.2 ± 0.6	
8.28 ^h	$\frac{3}{2}^+$	6.86	$\frac{5}{2}^+$	1	Γ_γ (eV)
		0	$\frac{1}{2}^-$	53.2 ± 0.25 ^m	0.24
		5.18	$\frac{1}{2}^+$	1.2 ± 0.1	0.006
		5.24	$\frac{5}{2}^+$	42.2 ± 0.5 ^m	0.20
		6.18	$\frac{3}{2}^-$	2.2 ± 0.6 ^m	0.01
8.74 ^h	$\frac{1}{2}^+$	6.86	$\frac{5}{2}^+$	1.2 ± 0.3 ^m	0.006
		5.18	$\frac{1}{2}^+$	64 ± 3	0.18
		6.18	$\frac{3}{2}^-$	36 ± 3	0.10
8.922 ⁱ	$\frac{5}{2}^+$	0	$\frac{1}{2}^-$	9 ± 4	
		5.18	$\frac{1}{2}^+$	39 ± 3	
		6.18	$\frac{3}{2}^-$	24 ± 3	
		6.86	$\frac{5}{2}^+$	28 ± 3	
8.922 ⁱ	$\frac{1}{2}^-$	0	$\frac{1}{2}^-$	50 ± 25	
		5.18	$\frac{1}{2}^+$	20 ± 10	
		6.18	$\frac{3}{2}^-$	20 ± 10	
		6.86	$\frac{5}{2}^+$	(10 ± 10)	
8.982 ^j	$(\frac{3}{2})^-$	0	$\frac{1}{2}^-$	94 ± 1	
		5.18	$\frac{1}{2}^+$	6 ± 1	
9.48 ^h	$(\frac{3}{2})^+$	0	$\frac{1}{2}^-$	100	9.1 ± 2.0 ⁿ
9.49	$\frac{5}{2}^-$	0	$\frac{1}{2}^-$	86	2.1

Table 15.17 from (1991AJ01): Radiative decays in ^{15}O ^a (continued)

E_i (MeV)	J_i^π	E_f (MeV)	J_f^π	Branch (%)	δ^b
9.61	$\frac{3}{2}^-$	5.24	$\frac{5}{2}^+$	6.5	0.15
		6.18	$\frac{3}{2}^-$	0.7	0.22
		6.86	$\frac{5}{2}^+$	3.4	0.08
		7.28	$\frac{7}{2}^+$	5.1	0.11
		0	$\frac{1}{2}^-$	79	4.0
		5.24	$\frac{5}{2}^+$	19	1.0
10.46	$(\frac{9}{2}^+)$	6.18	$\frac{3}{2}^-$	2	0.1
		5.24	$\frac{5}{2}^+$	62 ± 6	$18 \pm 6^{\text{n}}$
		6.86	$\frac{5}{2}^+$	< 4	< 1.5
10.48	$(\frac{3}{2}^-)$	7.28	$\frac{7}{2}^+$	38 ± 6	$11 \pm 4^{\text{n}}$
		0	$\frac{1}{2}^-$	60 ± 8	$0.21 \pm 0.07^{\text{n}}$
		5.24	$\frac{5}{2}^+$	40 ± 6	$0.14 \pm 0.01^{\text{n}}$
10.94	$\frac{1}{2}^+$	6.18	$\frac{3}{2}^-$	< 4	< 0.02
		9.79	$\frac{3}{2}^+$	< 4	< 0.02
		0	$\frac{1}{2}^-$	44 ± 8	14 ± 4
		5.18	$\frac{1}{2}^+$	34 ± 3	11 ± 2
		6.18	$\frac{3}{2}^-$	22 ± 8	7 ± 2
		6.79	$\frac{3}{2}^+$	< 8	< 3
11.03 ^a	$\frac{1}{2}^-$	0	$\frac{1}{2}^-$	100	1.4 ± 0.4
11.22	$\frac{3}{2}^+$	0	$\frac{1}{2}^-$	74 ± 5	5.5 ± 0.5
		5.18	$\frac{1}{2}^+$	14 ± 5	1.0 ± 0.2
		5.24	$\frac{5}{2}^+$	12 ± 5	0.9 ± 0.2
		6.79	$\frac{3}{2}^+$	< 4	< 0.4
11.57	$\frac{5}{2}^-$	0	$\frac{1}{2}^-$	18 ± 9	0.3 ± 0.2
		5.24	$\frac{5}{2}^+$	63 ± 9	1.2 ± 0.1
		6.18	$\frac{3}{2}^-$	20 ± 9	0.4 ± 0.2
		6.79	$\frac{3}{2}^+$	< 3	< 0.1
		5.24	$\frac{5}{2}^+$	47 ± 7	5 ± 1
11.75 ^a	$\frac{5}{2}^+$	6.18	$\frac{3}{2}^-$	53 ± 7	5 ± 1
		5.24	$\frac{5}{2}^+$	100	1.4 ± 0.6

- ^a For references and other comments see [Table 15.19 in \(1981AJ01\)](#).
- ^b δ =multipole mixing ratio.
- ^c Branches to $^{15}\text{O}^*(5.18, 5.24)$ are $< 2.5\%$ each.
- ^d Branches to $^{15}\text{O}^*(5.18, 5.24, 6.18)$ are < 3 , < 3 and $< 7\%$, respectively.
- ^e Branches to $^{15}\text{O}^*(0, 5.18, 6.18)$ are < 10 , < 4 and $< 0.4\%$, respectively.
- ^f Branches to $^{15}\text{O}^*(5.18, 6.18)$ are < 4 and $< 2\%$, respectively.
- ^g Branchings shown to $^{15}\text{O}^*(5.18, 6.18, 6.79)$ are weighted means of values shown in [Table 15.19 of \(1981AJ01\)](#), recalculated to sum to 100% for all the transitions.
- ^h (1987SC1H).
- ⁱ See, however, the comments in [reaction 14 of \(1981AJ01\)](#).
- ^j Branchings to $^{15}\text{O}^*(6.18, 6.86)$ are $< 1\%$ each.
- ^k Weighted mean of values shown in [Table 15.19 of \(1981AJ01\)](#).
- ^l Intensity $< 25\%$ of transition to $^{15}\text{O}^*(6.79)$.
- ^m Recalculated because of new transition to $^{15}\text{O}^*(\frac{1}{2}^+)$ (1987SC1H).
- ⁿ Γ_γ values assume J -values in column 2.