

Table 15.19 from (1981AJ01): Radiative decays in ^{15}O

E_i (MeV)	J_i^π	E_f (MeV)	J_f^π	Branch (%)	δ^b	Refs.
5.24	$\frac{5}{2}^+$	0	$\frac{1}{2}^-$	100	$+0.10 \pm 0.04$ (E3/M2)	^b
6.18	$\frac{3}{2}^-$	0	$\frac{1}{2}^-$	100	-0.141 ± 0.016 -0.121 ± 0.008 (E2/M1)	(1965WA16, 1974KE02) (1971AV04)
6.79	$\frac{3}{2}^+$	5.18	$\frac{1}{2}^+$	< 2.5		(1965WA16)
		5.24	$\frac{5}{2}^+$	< 2.5		(1965WA16)
		0	$\frac{1}{2}^-$	100	-0.02 ± 0.02 (M2/E1)	(1965WA16, 1968GI11, 1971AV04)
6.86	$\frac{5}{2}^+$	5.18	$\frac{1}{2}^+$	< 3		(1968GI11)
		5.24	$\frac{5}{2}^+$	< 3		(1968GI11)
		6.18	$\frac{3}{2}^-$	< 7		(1965WA16)
		0	$\frac{1}{2}^-$	< 10		(1965WA16)
		5.18	$\frac{1}{2}^+$	< 4		(1968GI11)
7.28	$\frac{7}{2}^+$	5.24	$\frac{5}{2}^+$	100	$+0.04 \pm 0.03$ (E2/M1)	(1965WA16, 1968GI11, 1971AV04)
		6.18	$\frac{3}{2}^-$	< 0.4		(1965WA16)
		0	$\frac{1}{2}^-$	< 30		(1965WA16)
				< 12		(1968GI11)
				3.8 ± 1.2		(1969KU01)
		5.18	$\frac{1}{2}^+$	< 10		(1965WA16)
				< 4		(1968GI11)
		5.24	$\frac{5}{2}^+$	100		(1965WA16, 1968GI11)
				96.2 ± 1.2		(1969KU01)
		6.18	$\frac{3}{2}^-$	< 2		(1965WA16)
7.56	$\frac{1}{2}^+$	0	$\frac{1}{2}^-$	≈ 3 3.5 ± 0.5	(1960TA17) (1963HE11)	
		5.18	$\frac{1}{2}^+$	16.2 ± 2 15.8 ± 0.6	(1960TA17) (1963HE11)	
		6.18	$\frac{3}{2}^-$	57.9 ± 0.6 57.4 ± 0.6	(1960TA17) (1963HE11)	
		6.79	$\frac{3}{2}^+$	22.9 ± 2 23.3 ± 0.6	(1960TA17) (1963HE11)	

Table 15.19 from (1981AJ01): Radiative decays in ^{15}O (continued)

E_i (MeV)	J_i^π	E_f (MeV)	J_f^π	Branch (%)	Γ_γ (eV)	Refs.	
8.28	$\frac{3}{2}^+$	6.86	$\frac{5}{2}^+$	c	f		
		0	$\frac{1}{2}^-$	53.8 ± 0.25	0.531	(1966EV01)	
		5.24	$\frac{5}{2}^+$	42.7 ± 0.5	0.405	(1966EV01)	
		6.18	$\frac{3}{2}^-$	2.2 ± 0.6	0.021	(1966EV01)	
		6.86	$\frac{5}{2}^+$	1.2 ± 0.3	0.011	(1966EV01)	
8.74	$\frac{1}{2}^+$	5.18	$\frac{1}{2}^+$	67	0.32	(1966EV01)	
		6.18	$\frac{3}{2}^-$	33	0.16	(1966EV01)	
		8.922 ^d	$\frac{1}{2}^-$	0	50 ± 25		(1972KR14)
8.982	$(\frac{3}{2})^-$	5.18	$\frac{1}{2}^+$	20 ± 10		(1972KR14)	
		6.18	$\frac{3}{2}^-$	20 ± 10		(1972KR14)	
		6.86	$\frac{5}{2}^+$	(10 ± 10)		(1972KR14)	
		0	$\frac{1}{2}^-$	94 ± 1		(1972KR14)	
		5.18	$\frac{1}{2}^+$	6 ± 1		(1972KR14)	
9.49	$\frac{5}{2}^-$	6.18	$\frac{3}{2}^-$	< 1		(1972KR14)	
		6.86	$\frac{5}{2}^+$	< 1		(1972KR14)	
		0	$\frac{1}{2}^-$	86	2.1	(1967EV02)	
		5.24	$\frac{5}{2}^+$	6.5	0.15	(1967EV02)	
		6.18	$\frac{3}{2}^-$	0.7	0.22	(1967EV02)	
9.50 ^e	$\frac{3}{2}^+(\frac{1}{2}^+)$	6.86	$\frac{5}{2}^+$	3.4	0.08	(1967EV02)	
		7.28	$\frac{7}{2}^+$	5.1	0.11	(1967EV02)	
		0	$\frac{1}{2}^-$	≈ 100		(1967EV02)	
		9.61	$\frac{3}{2}^-$	0	79	4.0	(1967EV02)
		5.24	$\frac{5}{2}^+$	19	1.0	(1967EV02)	
10.46	$(\frac{9}{2}^+)$	6.18	$\frac{3}{2}^-$	2	0.1	(1967EV02)	
		5.24	$\frac{5}{2}^+$	62 ± 6	18 ± 6^g	(1977KU03)	
		6.86	$\frac{5}{2}^+$	< 4	< 1.5	(1977KU03)	
		7.28	$\frac{7}{2}^+$	38 ± 6	11 ± 4^g	(1977KU03)	
10.48	$(\frac{3}{2})^-$	0	$\frac{1}{2}^-$	60 ± 8	0.21 ± 0.07^g	(1977KU03)	
		5.24	$\frac{5}{2}^+$	40 ± 6	0.14 ± 0.01^g	(1977KU03)	
		6.18	$\frac{3}{2}^-$	< 4	< 0.02	(1977KU03)	
		9.79	$\frac{3}{2}^+$	< 4	< 0.02	(1977KU03)	
10.94	$\frac{1}{2}^+$	0	$\frac{1}{2}^-$	44 ± 8	14 ± 4	(1972PH02)	
		5.18	$\frac{1}{2}^+$	34 ± 3	11 ± 2	(1972PH02)	

Table 15.19 from (1981AJ01): Radiative decays in ^{15}O (continued)

E_i (MeV)	J_i^π	E_f (MeV)	J_f^π	Branch (%)	Γ_γ (eV)	Refs.
11.03	$\frac{1}{2}^-$	6.18	$\frac{3}{2}^-$	22 ± 8	7 ± 2	(1972PH02)
		6.79	$\frac{3}{2}^+$	< 8	< 3	(1972PH02)
		0	$\frac{1}{2}^-$	100	1.4 ± 0.4	(1972PH02)
11.22	$\frac{3}{2}^+$	6.79	$\frac{3}{2}^+$	< 25	< 0.4	(1972PH02)
		0	$\frac{1}{2}^-$	74 ± 5	5.5 ± 0.5	(1972PH02)
		5.18	$\frac{1}{2}^+$	14 ± 5	1.0 ± 0.2	(1972PH02)
11.57	$\frac{5}{2}^-$	5.24	$\frac{5}{2}^+$	12 ± 5	0.9 ± 0.2	(1972PH02)
		6.79	$\frac{3}{2}^+$	< 4	< 0.4	(1972PH02)
		0	$\frac{1}{2}^-$	18 ± 9	0.3 ± 0.2	(1972PH02)
		5.24	$\frac{5}{2}^+$	63 ± 9	1.2 ± 0.1	(1972PH02)
11.75	$\frac{5}{2}^+$	6.18	$\frac{3}{2}^-$	20 ± 9	0.4 ± 0.2	(1972PH02)
		6.79	$\frac{3}{2}^+$	< 3	< 0.1	(1972PH02)
		0	$\frac{1}{2}^-$	< 30		(1972PH02)
		5.18	$\frac{1}{2}^+$	< 25		(1972PH02)
		5.24	$\frac{5}{2}^+$	47 ± 7	5 ± 1	(1972PH02)
11.85	$\frac{5}{2}^-$	6.18	$\frac{3}{2}^-$	53 ± 7	5 ± 1	(1972PH02)
		6.79	$\frac{3}{2}^+$	< 20		(1972PH02)
		0	$\frac{1}{2}^-$	< 50		(1972PH02)
		5.24	$\frac{5}{2}^+$	100	1.4 ± 0.6	(1972PH02)
		6.79	$\frac{3}{2}^+$	< 40		(1972PH02)

^a δ = multipole mixing ratio.

^b Average of results of (1966GO15, 1968GI01, 1971AV04) (P.M. Endt, private communication).

^c Intensity $< 25\%$ of transition to $^{15}\text{O}^*(6.79)$.

^d See, however, (1977DR02) and the comments in reaction 14.

^e Unresolved doublet: see Table 15.23.

^f Sum is 0.97 eV, but see Table 15.23 [$\Gamma_\gamma = 1.4$ eV].

^g Γ_γ values assume J values in column 2.