

16O(d,d')16O

E(level) (keV)	J π (level)	T1/2(level)	E(γ) (keV)	I(γ)	M(γ)	Final level	
0.0	0+	STABLE					
6049.4 10	0+	67 ps 5	6048.2 10		[E0]	0.0	0
6129.89 4	3-	18.4 ps 5	6128.63 4	100	[E3]	0.0	0
6917.1 6	2+	4.70 fs 13	787.2 6 867.7 12 6915.5 6	≤ 0.008 0.027 3 100	[E1] [E2] [E2]	6129.89 6049.4 0.0	3- 0+ 0+
7116.85 14	1-	8.3 fs 5	986.93 15 1067.5 10 7115.15 14	0.070 14 <6E-4 100	[E2] [E1] [E1]	6129.89 6049.4 0.0	3- 0+ 0+
8871.9 5	2-	125 fs 11	1754.9 6 1954.7 8 2741.5 5 2822.2 12 8869.3 5	14.7 7 4.6 7 100 21 0.15 5 9.3 10	[M1+E2] [E1] [M1+E2] [M2] [M2]	7116.85 6917.1 6129.89 6049.4 0.0	1- 2+ 3- 0+ 0+
9585 11	1-	420 keV 20 % IT = 6.7E- 6 10 % α = 100	2688 11 9582 11	12 4 100 16	[E1] [E1]	6917.1 0.0	2+ 0+
9844.5 5	2+	0.62 keV 10 % IT = 0.0016 3 % α = 100	2927.1 8 3794.6 12 9841.2 5	34 7 30 7 100 7	[M1] [E2] [E2]	6917.1 6049.4 0.0	2+ 0+ 0+
10356 3	4+	26 keV 3 % IT = 2.4E- 4 4 % α = 100	3439 3 4225 3 10352 3	100 10 <1.6 9E-5 3	[E2] [E1] [E4]	6917.1 6129.89 0.0	2+ 3- 0+
10957 1	0-	5.5 fs 35	3839.6 10	100	[M1]	7116.85	
11080 3	3+	< 12 keV					
11096.7 16	4+	0.28 keV 5 % IT = 0.0020 6 % α = 100	4179.0 17 4966.0 16	81 20 100 42	[E2] [E1]	6917.1 6129.89	
11520 4	2+	71 keV 3 % IT = 9.4E- 5 3 % α = 100	4402 4 4602 4 5470 5 11516 4	≤ 0.9 4.4 11 4.6 8 100.0 13	[E1] [M1] [E2] [E2]	7116.85 6917.1 6049.4 0.0	1- 2+ 0+ 0+
12049 2	0+	1.5 keV 5 % IT = ? % α = 100	12044.1 20		[E0]	0.0	0+
12440 2	1-	91 keV 6 % IT = 0.0132 24 % p = 0.9 1 % α = 99.1 1	6389.2 23 12434.8 20	1.2 4 100	[E1] [E1]	6049.4 0.0	0+ 0+
12530 1	2-	0.111 keV 10 % IT = 3.2 3 % p = 14 7 % α = 83 3	3657.7 12 5412.1 10 5611.8 12 6398.7 10 12524.7 10	67 4 24.5 14 <2 100 4 12.2 12	[M1] [M1] [E1] [M1] [M2]	8871.9 7116.85 6917.1 6129.89 0.0	2- 1- 2+ 3- 0+
13020 10	2+	150 keV 10	13014 10	100		0.0	0+
13664 3	1+	64 keV 3 % p = 14 % α = 86 % IT < 0.0015					

16O(d,p)17O

E(level) (keV)	J π (level)	T1/2 (level)	E(γ) (keV)	I(γ)	M(γ)	Final level	
0.0	5/2+	STABLE					
870.73 10	1/2+	179.2 ps 18	870.71 12	100	[E2]	0.0	5/2+
3055.36 16	1/2-	0.08 ps +6-4	2184.48 20	100	[E1]	870.73	1/2+
3842.8 4	5/2-	≤ 18 fs	3842.3 4	100	[E1]	0.0	5/2+
4553.8 16	3/2-	40 keV 5 % IT = ? % n = 100	3682.7 16 4553.1 16			870.73 0.0	1/2+ 5/2+
5084.8 9	3/2+	96 keV 5 % IT = ? % n = 100					
5215.8 5	9/2-	< 0.1 keV % IT = ? % n = ?					
5732.8 5	(5/2-)	< 1 keV % n = 100					
5869.1 6	3/2+	6.6 keV 7 % n = 100					
5939 4	1/2-	32 keV 3 % IT = ? % n = 100					
6862 2	(5/2+)	< 1 keV % IT = ? % n = ?					
7559 20	3/2-	500 keV 50 % n = ? % α = ?					

16O(d,t)16O

E(level) (keV)	J π (level)	T1/2(level)	E(γ) (keV)	I(γ)	M(γ)	Final level	
0.0	1/2-	122.24 s 16 % ϵ = 100					
5183 1	1/2+	5.7 fs 7	5182 1	100	[E1]	0.0	1/2-
5240.9 3	5/2+	2.25 ps 21	5239.9 3	100	[M2+E3]	0.0	1/2-
6176.3 17	3/2-	< 1.74 fs	6174.9 17	100	[M1+E2]	0.0	1/2-
6793.1 17	3/2+	< 20 fs	6791.4 17	100	[E1(+M2)]	0.0	1/2-
6859.4 9	5/2+	11.1 fs 17	1618.4 10	100	[M1(+E2)]	5240.9	5/2+
10480	3/2-	25 keV 5 % IT=0.0014 4 % p = 100	3686 4303 5238 10476	<7 <7 67 10 100 10		6793.1 6176.3 5240.9	3/2+ 3/2- 5/2+ 1/2-