

Adopted Levels, Gammas 1998Ti06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. R. Tilley, C. Cheves, J. Kelley, S. Raman, H. Weller		NP A636,249 (1998)	21-Apr-1997

$Q(\beta^-)=3813.6$ 9; $S(n)=7608$ 3; $S(p)=19348$ 17; $Q(\alpha)=-12323$ 4 [2012Wa38](#)
 Note: Current evaluation has used the following Q record 3814.3 21 7608 3 19352 16-12322 4 [1997Au04](#).
 See other reaction references in [1998Ti06](#).

 ^{20}O LevelsCross Reference (XREF) Flags

A $^{18}\text{O}(t,p)$
 B $^{18}\text{O}(\alpha,2p)$
 C $^{18}\text{O}(^{18}\text{O},^{16}\text{O})$

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0	0^+	13.51 s 5	ABC	$\% \beta^- = 100$ T=2
1673.68 15	2^+	7.3 ps 3	ABC	$T_{1/2}$: Weighted average: 13.49 s 5 (1974A109) 13.57 s 1 (1970Ma42). $\mu = -0.70$ 3 (1989Ra17) $\Gamma_\gamma = 6.28 \times 10^{-5}$ eV 24.
3570 7	4^+		ABC	
4072 4	2^+		A C	
4456 5	0^+		A C	
4850 15	4^+		A	
5002 6			A	
5234 5	2^+		A	
5304 6	2^+		A	
5387 6	0^+		A	
5614 3	(3^-)		A	
6555 8	(2)		A	
7252 8	5^-		A	
7622 [†] 7	3^- & 4^+		A	
7754 [†] 5	4^+		AB	
7855 [†] 6	(5^-)		AB	
8554 [†] 8	4^+		A	
8804 [†] 9	3^-		AB	
8962 [†] 21	(0^+)		A	
9770 [†] 8	0^+		A	
10125 [†] 11	2^+		AB	

[†] Decay mode not specified.

Adopted Levels, Gammas 1998Ti06 (continued)

$\gamma(^{20}\text{O})$									
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	Comments		
1673.68	2 ⁺	1673.60	15	100.	0.0	0 ⁺	[E2]	B(E2)(W.u.)=1.80	7

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Level Scheme

Intensities: Type not specified

