

$^{188}\text{Os}(\text{d,t})$ 1973Mo04,1973Th04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 110,999 (2009)	1-Nov-2008

1973Mo04: E(d)=12 MeV; Detector: heavy-particle spectrograph, $\theta=90^\circ$ and 125° ; FWHM=14 keV; deduced E-level, l-values and cross section ($\mu\text{b/sr}$).

1973Th04: E(d)=12 MeV; Detector: photographic plate, $\theta=72.5^\circ$, 80° , 90° ; FWHM=16 keV; deduced E-level and cross section.

Other: $^{188}\text{Os}(^3\text{He},\alpha)$ by (1973KIZZ).

 ^{187}Os Levels

E(level) [†]	L [@]	Comments
75 1	1,3	(mb/sr)=701 38. Cross sections 363 19 mb/sr (125°) (1973Mo04), (mb/sr)=270 16. Cross sections 175 10 mb/sr (125°) (1973Mo04),
101 1	3	(mb/sr)=16 3. Cross sections 13 2 mb/sr (125°) (1973Mo04), (mb/sr)=74 6. Cross sections 64 5 mb/sr (125°) (1973Mo04),
117 [‡] 2	3,≥5	(mb/sr)=5 2. Cross sections 13 2 mb/sr (125°) (1973Mo04), (mb/sr)=48 5. Cross sections 41 3 mb/sr (125°) (1973Mo04), (mb/sr)=85 7. Cross sections 55 4 mb/sr (125°) (1973Mo04),
333 1	3	(mb/sr)=13 3. Cross sections 10 2 mb/sr (125°) (1973Mo04), (mb/sr)=300 17. Cross sections 173 10 mb/sr (125°) (1973Mo04),
349 [‡] 2	≥5	(mb/sr)=19 3. Cross sections 27 2 mb/sr (125°) (1973Mo04), (mb/sr)=67 6. Cross sections 61 4 mb/sr (125°) (1973Mo04),
419 3	6&	(mb/sr)=6 2. Cross sections 10 2 mb/sr (125°) (1973Mo04), (mb/sr)=50 5. Cross sections 50 5 mb/sr (125°) (1973Mo04), (mb/sr)=20 3. Cross sections 34 3 mb/sr (125°) (1973Mo04), (mb/sr)=9 2. Cross sections 14 2 mb/sr (125°) (1973Mo04), (mb/sr)=11 3. Cross sections 6 1 mb/sr (125°) (1973Mo04),
501 2	1	(mb/sr)=6 2. Cross sections 7 1 mb/sr (125°) (1973Mo04),
559 [‡] 3	(1),3	(mb/sr)=20 3. Cross sections 21 2 mb/sr (125°) (1973Mo04),
595 1	1	
611 [‡] 3	≥5	
712 [#] 2	3	
756 4	3,≥5	
820 [‡] 4	≥5	
838 4	3,≥5	
888 2	6&	
934 6	≥5	
962 5	1	
1005 [‡] 6	6	
1053 6	≥5	
1080 [‡] 8	8	
1111 5	3,≥5	
1246 [‡] 5	5	
1354 [‡] 3	3	
1563 [‡] 5	5	

Continued on next page (footnotes at end of table)

 $^{188}\text{Os}(\text{d,t})$ **1973Mo04,1973Th04 (continued)**

 ^{187}Os Levels (continued)E(level)[†]1619[‡] 13

1647 12

[†] Average of **1973Mo04** and **1973Th04**, when reported in both.

[‡] Not observed by **1973Th04**.

726 3 in **1973Th04**.

@ Deduced by **1973Mo04** with an uncertainty of ± 1 from measured cross sections at $\theta=90^\circ$ and 125° except where noted.

& Deduced from $\sigma(^3\text{He},\alpha)/\sigma(\text{d,t})$ cross-section ratios.