

$^{100}\text{Mo}(n,\gamma)$ E=th: primary 1990Se17

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006

E=thermal, enriched target 95.9%.

Measured γ singles, $\gamma\gamma$ coin (semi).

[Additional information 1.](#)

 ^{101}Mo Levels

E(level)	J^π	Comments
0.0	1/2 ⁺	
294.6 2		
568.9 2		
854.5 3		
903.0 3		
1011.0 2		
1099.5 4		
1291.6 2		
1349.8 2		
1447.4 2		
1459.7 4		
1560.9 4		
1619.7 3		
1636.2 3		
1686.6 4		
1699.6 2		
1825.7 3		
1846.3 6		
1860.5 2		
1977.7 10		
2109.2 8		
(5398.27 8)		E(level): to be compared with 5398.24 7 (2003Au03).

 $\gamma(^{101}\text{Mo})$

E_γ	$I_\gamma^{\dagger\ddagger}$	$E_i(\text{level})$	E_f	E_γ	$I_\gamma^{\dagger\ddagger}$	$E_i(\text{level})$	E_f	J_f^π
3289.1 8	7.8 13	(5398.27)	2109.2	3950.9 2	16.8 13	(5398.27)	1447.4	
3420.6 10	3.5 9	(5398.27)	1977.7	4048.5 2	14.7 8	(5398.27)	1349.8	
3537.8 2	15.8 11	(5398.27)	1860.5	4106.7 2	41.7 15	(5398.27)	1291.6	
3552.0 6	3.7 5	(5398.27)	1846.3	4298.8 4	3.7 4	(5398.27)	1099.5	
3572.6 3	12.8 9	(5398.27)	1825.7	4387.3 2	26.5 13	(5398.27)	1011.0	
3698.7 2	19.1 13	(5398.27)	1699.6	4495.3 3	3.5 7	(5398.27)	903.0	
3711.7 4	11.7 8	(5398.27)	1686.6	4543.8 3	4.6 3	(5398.27)	854.5	
3762.1 3	12.3 6	(5398.27)	1636.2	4829.4 2	6.2 4	(5398.27)	568.9	
3778.6 3	9.1 7	(5398.27)	1619.7	5103.7 2	68 3	(5398.27)	294.6	
3837.4 4	7.7 6	(5398.27)	1560.9	5398.1 3	5.0 4	(5398.27)	0.0	1/2 ⁺
3938.5 4	6.9 13	(5398.27)	1459.7					

[†] Absolute photons/1000 n captures are listed; normalized via the 191 keV in ^{101}Tc decay. Uncertainties do not contain the 2% error of the 191 keV (^{101}Tc decay).

[‡] For intensity per 100 neutron captures, multiply by 0.1.

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Level Scheme

Intensities: I_γ per 100 neutron captures

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$

