

$^{94}\text{Mo}(\text{d},\text{n})$ 1971Ri12,1971Bo33

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, G. Mukherjee, A. A. Sonzogni		NDS 111, 2555 (2010)	30-Jun-2009

1971Ri12: E=12 MeV. Measured $\sigma(\theta=15^\circ-70^\circ, 5^\circ \text{ steps})$; tof, scin. FWHM=60-100 keV. DWBA.

1971Bo33: E=6.25, 7.0 MeV. Measured $\sigma(\theta(\text{c.m.})\approx 5^\circ-100^\circ)$; tof, scin. FWHM=100 keV for g.s. transition. DWBA.

Other: 1970Za09.

 ^{95}Tc Levels

E(level) [‡]	J ^π [†]	L [#]	C ² S' [#]	E(level) [‡]	L [#]	C ² S' [#]
0.0	9/2 ⁺	4	7.73	3210 ^{&}	0	0.03
40 2	1/2 ⁻	1	0.64	3490 ^{&}	2	0.10
648 20	3/2 ⁻	1	0.44	3520 ^b 20	0 ^a	0.03 ^a
980 20	(3/2 ⁺ , 5/2 ⁺)	2	0.01	3650 20	2	0.13
1300 20		4+1	0.54+0.16	3810 20	0	0.05
1450 20	(5/2 ⁺)	2	0.17	3920 ^{&}	0	0.01
1660 20	(1/2 ⁺)	1+0 [@]	0.04+0.02	4040 ^b 20	0 ^a	0.10 ^a
1750 ^{&}		1	0.07	4400 ^{&}	2	
1930 ^b 20	(1/2 ⁺)	0 ^a	0.04 ^a	4500 ^{&}	2	
2290 ^{&}		2	0.07	4740 20	0 ^a	0.07 ^a
2560 20		1 [@]	0.14 [@]	5220 20	0 ^a	0.03 ^a
2780 ^b 20		0 ^a	0.10 ^a	5350 20	0 ^a	0.07 ^a
2830 20		2	1.26			

[†] From Adopted Levels, if consistent with experimental L-transfer.

[‡] From 1971Bo33, except as noted. 1971Ri12 did not study states above 4.5 MeV.

[#] From 1971Ri12, except as noted. Except for the first excited state ($J^\pi=1/2^-$), L=1 states are assumed to have $J^\pi=3/2^-$. $J^\pi=5/2^+$ is assumed for L=2 states below 3.9 MeV. C²S' values calculated by 1983Lu03 based on S values given by 1971Ri12.

[@] L(1.66 MeV)=0 and L(2.56 MeV)=0. C²S'(2.56 MeV)=0.03 (1971Bo33).

[&] From 1971Ri12. Not reported by 1971Bo33.

^a From 1971Bo33. C²S' at 6.25 MeV adjusted by evaluator for N=1.48 assumed by 1971Bo33 to bring values onto same relative scale as 1971Ri12.

^b Not reported by 1971Ri12.