

$^{100}\text{Mo}(^{18}\text{O},^{16}\text{O}\gamma)$ 1975Bo39,1981Ko30

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne	NDS 110, 1745 (2009)	31-Dec-2008

E=20-61 MeV (1975Bo39); E=84 MeV (1981Ko30); measured: E_γ , I_γ , particle- γ coin, $T_{1/2}$. Magnetic spectrograph. Deduced: ^{102}Mo levels.

For $\sigma(E)$, see 1975Bo39.

 ^{102}Mo Levels

E(level) [#]	J^π [†]	$T_{1/2}$ [‡]
0	0^+	
296.15 5	2^+	114 ps 13
697.0 3	0^+	28 ps 11
743.35 12	4^+	12.5 ps 25
847.80 19	2^+	
1327.55 23	6^+	

[†] From Adopted Levels.

[‡] Determined by the recoil-distance Doppler-shift method (1975Bo39).

[#] Calculated using a least-squares fit to the measured gammas.

 $\gamma(^{102}\text{Mo})$

E_γ [†]	I_γ [‡]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
296.15 5	100	296.15	2^+	0	0^+
400.9 3	67 [#] 18	697.0	0^+	296.15	2^+
447.2 1	53 6	743.35	4^+	296.15	2^+
551.7 2	12 3	847.80	2^+	296.15	2^+
584.2 2	19 4	1327.55	6^+	743.35	4^+
847.6 4	8 3	847.80	2^+	0	0^+

[†] Unless noted otherwise, from 1981Ko30.

[‡] Relative intensity for the ^{102}Mo excitation energy range from 6.5 to 9.6 MeV, unless noted otherwise (1981Ko30).

[#] Relative to $I_\gamma=100$ (296 γ) for the ^{102}Mo excitation energy range from 1.4 to 3.7 MeV (1981Ko30).

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Level Scheme

Intensities: Type not specified

Legend

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

