

$^7\text{Li}(\text{n},\gamma)$ E=thermal 1991Ly01

Type	Author	History	Citation	Literature Cutoff Date
Update	J. H. Kelley, J. L. Godwin, C. G. Sheu		ENSDF	31-Mar-2004

Target $J^\pi=3/2^-$.1991Ly01: measured E_γ , I_γ ; deduced S(n).1967Ra24: $^7\text{Li}(\text{N},\gamma)$ E=thermal, measured E_γ . Dduced Q.1999ZhZM: $^7\text{Li}(\text{N},\gamma)$ E=thermal, compiled, evaluated prompt γ -ray data.2002Re13: $^7\text{Li}(\text{n},\gamma)$ E=thermal, compiled, analyzed prompt E_γ , I_γ . $\sigma=45.4$ mb 30 (1991Ly01), other values $\sigma=41$ mb 12 (1961Ja19), $\sigma=40$ mb 8 (1959Im04), $\sigma=44$ mb 10 (Koltypin et AL., Sov.Phys. (DOKL.) 1956), $\sigma=33$ mb 5 (1947Hu06).

Evaluated S(n)=2032.62 keV 12 (2003AU02).

 ^8Li Levels $E(\gamma)$ not corrected for recoil.E(level) from $E(\gamma)$.

$E(\text{level})^\dagger$	J^π	$T_{1/2}^\ddagger$	Comments
0.0	$2^+ \ddagger$	839.9 ms 9	
980.8 1 (2032.8 2)	1^+ $1^-, 2^-$	8.2 fs 23	
			J^π : from s-wave neutron capture.

[†] From E_γ 's using least-squares fit to data.[‡] From Adopted Levels. $\gamma(^8\text{Li})$

E_γ^\ddagger	$I_\gamma^\# @$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [†]	Comments
980.7 [†] 2	10.6 10	980.8	1^+	0.0	2^+	M1	$\sigma(\text{n},\gamma)=4.82$ mb 50 (1991LY01).
1052.0 2	10.6 10	(2032.8)	$1^-, 2^-$	980.8	1^+		$\sigma(\text{n},\gamma)=4.80$ mb 50 (1991LY01).
2032.5 3	89.4 10	(2032.8)	$1^-, 2^-$	0.0	2^+		$\sigma(\text{n},\gamma)=40.56$ mb 10 (1991LY01).

[†] From 1996FiZY.[‡] From 1991Ly01.

Intensities per 100 neutron captures from 1991Ly01.

@ Intensity per 100 neutron captures.

