
$^7\text{Li}(^7\text{Li},\text{d})$, $^7\text{Li}(^7\text{Li},^{12}\text{B})$ **1963Ca09, 1969Th01, 2005Cu06**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu		NP A968, 71 (2017)	1-Jan-2017

1963Ca09: $^7\text{Li}(^7\text{Li},\text{d})$, E= 3 MeV; measured limits on γ branching ratios for bound states.

1969Th01: E=5.1-6.3 MeV, measured $\sigma(E(\gamma),\theta(\gamma))$. Deduced lifetimes.

2005Cu06: E=58 MeV; measured E_d , deduced $\alpha+^8\text{Li}$ and $t+^9\text{Be}$ yields.

^{12}B Levels

E(level)	T _{1/2} [#]		Comments
0 [†]			
0.95×10 ³ [†]	204 fs	26	
1.67×10 ³ [†]			
2.63×10 ³ [†]	<33 fs	E(level): Unresolved.	
2.72×10 ³ [†]		E(level): Unresolved.	
11.67×10 ³ [‡]		E(level): Decays 100% via $\alpha+^8\text{Li}$.	
13.44×10 ³ [‡]		E(level): Decays 100% via $\alpha+^8\text{Li}$.	
14.1×10 ³ [‡]		E(level): Decays $\geq 94.4\%$ via $\alpha+^8\text{Li}$.	
		E(level): Decays <5.1% via $t+^9\text{Be}$.	
15.87×10 ³ [‡]		E(level): Decays (0.4±0.2)% via $t+^9\text{Be}$.	
15.9×10 ³ [‡]		E(level): Decays (99.6±4.2)% via $\alpha+^8\text{Li}$.	

[†] From (1963Ca09).

[‡] From (2005Cu06).

From (1969Th01).

$\gamma(^{12}\text{B})$

E _i (level)	E _{γ}	I _{γ}	E _f
0.95×10 ³	0.95×10 ³	100	0
1.67×10 ³	1.67×10 ³	>98	0
2.63×10 ³	2.63×10 ³	<10	0
2.72×10 ³	2.72×10 ³	>80	0

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Intensities: % photon branching from each level

