

$^{35}\text{Cl}(^3\text{He},p\gamma)$ 1971Iv01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	John Cameron, Jun Chen and Balraj Singh, Ninel Nica		NDS 113, 365 (2012)	15-Jan-2012

$J^\pi(^{35}\text{Cl})=3/2^+$.

1971Iv01: E=7.0 MeV; used Ge(Li) detector and measured γ -P coincidences, DSAM.

Others: 1975Po12.

 ^{37}Ar Levels

E(level) [†]	T _{1/2} [†]	E(level) [†]	T _{1/2} [†]	E(level) [†]	T _{1/2} [†]	E(level) [†]	T _{1/2} [†]
0.0		2219.8 15	0.42 ps 12	3168.0 20	21 fs 10	3517.0 20	0.15 ps 8
1408.9 13	0.45 ps 24	2491.2 15	0.28 ps 9	3189.0 20	0.66 ps 31	3609.0 20	35 fs 10
1611.3 12	>7 ps	2798.0 20	<17 fs	3270 3	31 fs 21		

[†] Measured by 1971Iv01.

 $\gamma(^{37}\text{Ar})$

E _i (level)	E _{γ} [†]	I _{γ}	E _f	E _i (level)	E _{γ} [†]	I _{γ}	E _f	E _i (level)	E _{γ} [†]	I _{γ}	E _f
1408.9	1408.9	100	0.0	3168.0	1759.1	<10	1408.9	3517.0	719.0	<10	2798.0
1611.3	1611.3	100	0.0		3167.9	100	0.0		1025.8	<20	2491.2
2219.8	608.5	<10	1611.3	3189.0	21.0	<10	3168.0		1297.2	<20	2219.8
	810.9	<10	1408.9		697.8	<15	2491.2		1905.6	<20	1611.3
	2219.7	100	0.0		969.2	<25	2219.8		2108.0	93 4	1408.9
2491.2	879.9	<15	1611.3		1577.7	100	1611.3		3516.8	<10	0.0
	1082.3	<15	1408.9		1780.1	<25	1408.9	3609.0	420.0	<5	3189.0
	2491.1	100	0.0		3188.9	<30	0.0		441.0	<5	3168.0
2798.0	578.2	<5	2219.8	3270	472.0	6 3	2798.0		811.0	<10	2798.0
	1186.7	<5	1611.3		778.8	<10	2491.2		1117.8	<15	2491.2
	1389.1	<15	1408.9		1050	<10	2219.8		1389.2	<15	2219.8
	2797.9	100	0.0		1659	55 8	1611.3		1997.6	<15	1611.3
3168.0	370.0	<5	2798.0		1861	<15	1408.9		2200.0	<15	1408.9
	676.8	<5	2491.2		3270	39 7	0.0		3608.8	100	0.0
	948.2	<10	2219.8	3517.0	328.0	<10	3189.0				
	1556.7	<20	1611.3		349.0	7 4	3168.0				

[†] Deduced by evaluators from differences of initial and final levels.

³⁵Cl(³He,pγ) 1971Iv01

Level Scheme

Intensities: % photon branching from each level

