

$^{35}\text{Cl}(^3\text{He},\alpha)$ 1974Va25

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, Balraj Singh		NDS 113, 1563 (2012)	28-May-2012

^{35}Cl target J^π : $3/2^+$.

1974Va25: $^{35}\text{Cl}(^3\text{He},\alpha)$ E=15 MeV, 99.3%-enriched ^{35}Cl BaCl₂ target on C backing. Split-pole magnetic spectrograph and measured α particle spectra with seven position-sensitive detectors with average resolution of 15 keV. DWBA analysis.

 ^{34}Cl Levels

E(level) [†]	L [‡]	S [‡]	E(level) [†]	L [‡]	S [‡]	E(level) [†]	L [‡]	S [‡]
0.0	2	1.3	3333 2	2	0.33	4321 [‡] 10	0+2	0.007+0.04
146.36 3	2	1.5	3383 2	0+2	0.81+0.69	4352.7 9		
461.00 4	0+2	0.09+0.26	3545.2 5	1	0.007	4416 2		
665.55 5	0+2	0.03+0.31	3600.5 7			4461 3		
1230.24 7	0+2	0.23+0.07	3632.5 14	3	0.030	4514.5 7		
1887.5 5	0+2	0.06+0.14	3771.0 7			4608 2	1+3	0.007+0.04
2158.3 3	0+2	0.30+0.54	3847 [‡] 10			4639 2		
2180.7 4	2	0.07	3937 [‡] 10	0+2	0.003+0.07	4715 [‡] 10	2	0.60
2376.3 4			3964 [‡] 10	2	0.18	4939 [‡] 11	2	0.13
2580.6 3	0	0.06	3982.1 3	3	0.040	4958 [‡] 11	2	0.30
2611.2 3	2	0.23	4075 [‡] 10	0+2	0.02+0.24	4971 [‡] 11	0+2	0.04+0.28
2718 [‡] 10	2	0.07	4075.4 9			4998 [‡] 12	0+2	0.08+0.56
2721.7 3			4136.6 12	0+2	0.03+0.12	5010 [‡] 13	2	0.85
3128 2	2	0.31	4206 [‡] 10	0+2	0.20+0.05			

[†] Unless noted otherwise, given by 1974Va25 As from 1973EnVA.

[‡] Measured by 1974Va25.