^{81}Br(d,p) 1972Ch33

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. K. Tuli, E. Browne	NDS 157, 260 (2019)	1-Mar-2019

E= 12 MeV. Enriched target. Measured E, $\sigma(\theta)$. ΔE,E counter, FWHM= 40 keV to 50 keV.
J^{π}(target)=3/2$^-$.

^{82}Br Levels

E(level)[†]	L[‡]	S[#]	E(level)[†]	L[‡]	S[#]	E(level)[†]	L[‡]	S[#]
0	4	0.30	845 *8*	(1,2)		1650 *4*	2	0.69
78 *6*	1	0.16	959 *8*	(3,4)		1743 *6*	0	0.09
293 *8*	4	0.63	1138 *8*			1807 *6*	2	0.25
377 *6*	1+4	0.40+0.22	1180 *8*			1955 *4*	(2)	0.53
476 *8*	4	0.59	1246 *8*			2026 *8*		
638 *8*	4	0.55	1386 *8*	(1)	0.05	2112 *8*		
771 *6*	1	0.13	1497 *4*	(2)	0.71	2212 *8*		

[†] Authors give ΔE= 4 keV to 8 keV for the strongest to weakest groups, respectively. Individual uncertainties assigned by the evaluators. Additional systematic uncertainty of 8 keV from g.s. line determination has not been included.
[‡] From DWBA.
[#] $(2J_f+1)/(2J_i+1)$S from DWBA. Two sets of S-values based on different optical-model parameters are reported. The differences between both sets are spreading up to 20% reflecting the uncertainty of the extraction of S-values.