

$^{25}\text{Mg}$        $Z = 12$        $N = 13$       [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 205.588 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
25MG 1	0.000	5/2+			1 STABLE
25MG 2	0.585	1/2+			2 3.38 NS 6
25MG 3	0.975	3/2+			3 10.1 PS 10
25MG 4	1.612	7/2+			4 17 FS 3
25MG 5	1.965	5/2+			5 0.70 PS 6
25MG 6	2.563	1/2+			6 10 FS 5
25MG 7	2.738	7/2+			7 290 FS 30
25MG 8	2.801	3/2+			8 26 FS 3
25MG 9	3.405	9/2+			9 7.7 FS 7
25MG 10			3.413 3/2-		10 7 FS 3
25MG 11	3.908	5/2+			11 6 FS 2
25MG 12			3.971 7/2-		12 22 FS 5
25MG 13	4.060	9/2+			13 47 FS 5
25MG 14			4.277 1/2-		14 4 FS LT
25MG 15	4.360	3/2+			15 7 FS LT
25MG 16	4.712	9/2+			16 26 FS 3
25MG 17				4.722 5/2+,3/2+	17 7 FS LT
25MG 18				5.012 (7/2)+	18 7 FS LT
25MG 19			5.117 1/2-		19 7 FS LT
25MG 20	5.252	11/2+			20 15 FS 2
25MG 21	5.461	13/2+			21 1.44 PS 13
25MG 22	5.475	1/2+			22 7 FS LT
25MG 23			5.521 5/2-		23 46 FS 6
25MG 24	5.534	11/2+			24 6 FS 2
25MG 25				5.746 7/2+,9/2+	25 7 FS LT
25MG 26				5.748 3/2+,5/2+	26 7 FS LT
25MG 27			5.793 7/2-		27 37 FS 7
25MG 28	5.860	5/2+			28 7 FS LT
25MG 29	5.972	9/2+			29 7 FS LT
25MG 30	5.980	7/2+			30 7 FS LT
25MG 31				6.041 7/2+,11/2+	31 6 FS LT
25MG 32	6.082	5/2+			32 7 FS LT
25MG 33				6.169 3/2	33 7 FS LT
25MG 34				6.362 3/2	34 7 FS LT
25MG 35	6.434	9/2+			35 7 FS LT
25MG 36			6.468 3/2-		36 7 FS LT
25MG 37				6.570 (1/2,3/2)+	37 7 FS LT
25MG 38				6.678 5/2	38 40 FS LT

25MG	39		6.777	1/2+							39	7 FS	LT
25MG	40							6.832	(3/2-, 5/2)		40	28 FS	LT
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25MG	41							6.840	5/2		41	7 FS	LT
25MG	42							6.862			42	9 FS	LT
25MG	43							6.885			43	97 FS	42
25MG	44					6.914	5/2-				44		
25MG	45					6.958	5/2-				45	7 FS	LT
25MG	46							7.038	5/2		46	21 FS	LT
25MG	47							7.089	(3/2, 5/2)+		47	7 FS	LT
25MG	48							7.182	(3/2, 5/2)		48	28 FS	LT
25MG	49							7.185			49	14 FS	LT
25MG	50							7.228	(3/2, 5/2)+		50	7 FS	LT
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25MG	51		7.265	1/2+							51		
25MG	52					7.286	7/2-				52	7 FS	LT
S-n	=		7.331 ( 0.000)										
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25MG	53		7.375	3/2+							53	1.9 EV	2
25MG	54					7.396	1/2-				54		
25MG	55					7.411	3/2-				55	7.2 KEV	5
25MG	56							7.493	11/2(+)		56	21 FS	8
25MG	57							7.500	(5/2)		57	3 EV	
25MG	58							7.525	(5/2, 7/2)+		58	10 FS	LT
25MG	59							7.551	(13/2)+		59	21 FS	LT
25MG	60		7.577	5/2+							60	40 EV	5
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25MG	61					7.586	1/2-				61	85 KEV	15
25MG	62							7.634	3/2+, 5/2+, 7/2+		62	50 FS	LT
25MG	63							7.653	9/2		63	21 FS	LT
25MG	64							7.685			64		
25MG	65					7.744	3/2-				65	31 KEV	3
25MG	66		7.787	3/2 5/2+							66	15 EV	1
25MG	67							7.801	9/2		67	12 FS	LT
25MG	68					7.809	3/2-				68	0.5 KEV	1
25MG	69		7.839	7/2+							69	28 FS	LT
25MG	70		7.864	3/2 3/2+							70	9 EV	3
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25MG	71							7.866	(7/2, 11/2)+		71	12 FS	LT
25MG	72					7.947	1/2-				72	0.9 KEV	2
25MG	73		7.961	7/2+							73	14 FS	LT
25MG	74		7.963	1/2+							74	21 KEV	2
25MG	75							8.011	(9/2, 13/2+)		75	37 FS	4
25MG	76							8.076	5/2+, 7/2+, 9/2+		76	14 FS	LT
25MG	77							8.119	(7/2)+		77	10 FS	LT
25MG	78		8.141	3/2+							78	13 KEV	5
25MG	79							8.244	(3/2, 5/2)+		79		
25MG	80							8.267	(7/2, 9/2)+		80	10 FS	LT
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25MG	81		8.311	5/2+							81	1.2 KEV	1
25MG	82							8.317	(3/2, 5/2)+		82		

25MG 83		8.324	1/2+					83	14 KEV	4		
25MG 84						8.351	(3/2+,5/2+)	84				
25MG 85		8.363	1/2+					85	18 KEV	6		
25MG 86						8.400		86				
25MG 87						8.447		87				
25MG 88						8.532	(7/2,11/2)+	88	10 FS	LT		
25MG 89						8.548	(5/2,7/2,9/2)+	89	17 FS	LT		
25MG 90		8.551	11/2+					90	5 FS	LT		
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25MG 91						8.552	(1/2)	91	8 KEV	4		
25MG 92		8.559	5/2+					92	1.8 KEV	1		
25MG 93					8.570	3/2-		93	4.2 KEV	2		
25MG 94		8.580	3/2+					94	8 KEV	4		
25MG 95						8.597	(3/2+,5/2+)	95				
25MG 96						8.656	7/2	96	10 FS	LT		
25MG 97						8.705		97				
25MG 98						8.811	9/2,11/2	98	8 FS	LT		
25MG 99		8.835	3/2 1/2+					99	50 KEV	10		
25MG 100					8.870	1/2-		100	15 KEV	1		
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25MG 101						8.888	(7/2,9/2+,11/2)	101	17 FS	LT		
25MG 102					8.894	3/2-		102	32 KEV	8		
25MG 103						8.896	7/2-,9/2-	103	17 FS	8		
25MG 104		8.971	5/2+					104	16 KEV	4		
25MG 105						9.000		105	9 FS	LT		
25MG 106						9.013	7/2,9/2,11/2	106	5 FS	LT		
25MG 107						9.014	(1/2,3/2)-	107	10 KEV	LT		
25MG 108						9.072		108	18 KEV	4		
25MG 109						9.326		109				
25MG 110						9.410	9/2,11/2,13/2	110	12 FS	8		
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25MG 111						9.503		111				
25MG 112						9.651		112	5 FS	LT		
25MG 113						9.685	(7/2,9/2,11/2)+	113	5 FS	LT		
25MG 114						9.830		114				
S-alpha=		9.886	(0.000)		-----							
25MG 115						9.947	(15/2)+	115				
25MG 116						10.040		116				
25MG 117						10.137		117				
25MG 118						10.253	3/2	118				
25MG 119						10.618	3/2 (3/2,5/2)+	119				
25MG 120						10.653	(15/2+)	120				
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25MG 121						10.996		121				
25MG 122						11.003		122				
25MG 123						11.047		123				
25MG 124						11.200		124				
25MG 125						11.361		125				
25MG 126						11.410		126				
25MG 127						11.460		127				

25MG 128				11.486	128
25MG 129				11.725 3/2 (1/2,3/2)-	129
25MG 130				11.747	130
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25MG 131				11.779	131
25MG 132				12.000 3/2	132
S-p	=	12.064	(	0.000)	-----
25MG 133				12.898 3/2 (1/2,3/2)-	133
25MG 134				13.143	134
25MG 135				13.332	135
S-p	=	12.064	(	0.000)	-----
S-n	=	7.331	(	0.000)	-----
S-2p	=	22.617	(	0.000)	-----
S-2n	=	23.862	(	0.000)	-----
S-alpha	=	9.886	(	0.000)	-----
S+p	=	-6.306	(	0.000)	
S+n	=	-11.093	(	0.000)	
S+2p	=	-13.770	(	0.000)	
S+2n	=	-17.536	(	0.000)	
S+alpha	=	-11.127	(	0.000)	
gap p	=	5.757	(	0.000)	
gap n	=	-3.763	(	0.000)	
gap 2p	=	8.847	(	0.000)	
gap 2n	=	6.325	(	0.000)	
gap alpha	=	-1.241	(	0.000)	