

^{199}Hg $Z = 80$ $N = 119$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1573.151 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-0.823	(0.001)	-----		
199HG 1			0.000	1/2-	1 STABLE
199HG 2			0.158	5/2-	2 2.45 NS 3
199HG 3			0.208	3/2-	3 69 PS 3
199HG 4			0.404	3/2-	4 5.8 PS 12
199HG 5			0.414	5/2-	5 115 PS 23
199HG 6				0.455 1/2-,3/2-	6
199HG 7			0.492	3/2-	7
199HG 8	0.532	13/2+			8 42.67 M 9
199HG 9				0.638	9
199HG 10				0.667 5/2-,7/2-	10

199HG 11				0.667 1/2,3/2	11
199HG 12				0.695	12
199HG 13				0.699 5/2-,7/2-	13
199HG 14				0.711	14
199HG 15				0.736 1/2,3/2,5/2+	15
199HG 16				0.750 1/2-,3/2-	16
199HG 17				0.759	17
199HG 18				0.822	18
199HG 19				0.824 (17/2+)	19
199HG 20				0.969 7/2-,5/2-	20

199HG 21				1.004	21
199HG 22				1.036 1/2,3/2,5/2+	22
199HG 23				1.104	23
199HG 24				1.221 1/2(-),3/2(-)	24
199HG 25				1.268 1/2,3/2,5/2+	25
199HG 26				1.274 (15/2+)	26
199HG 27				1.318 1/2,3/2,5/2+	27
199HG 28				1.328 1/2-,3/2-	28
199HG 29				1.357 (21/2+)	29
199HG 30				1.359 1/2,3/2	30

199HG 31				1.439 1/2-,3/2-	31
199HG 32				1.456 (7/2-,5/2-)	32
199HG 33				1.518 1/2,3/2	33
199HG 34				1.561	34
199HG 35				1.573 1/2,3/2	35
199HG 36				1.595 1/2,3/2	36
199HG 37				1.614	37

199HG	38			1.653	1/2(-), 3/2(-)	38
199HG	39			1.686		39
199HG	40			1.732	1/2, 3/2	40

199HG	41			1.744	1/2, 3/2	41
199HG	42			1.769	(19/2+)	42
199HG	43			1.781	1/2, 3/2	43
199HG	44			1.800	1/2, 3/2, 5/2+	44
199HG	45			1.822	1/2, 3/2	45
199HG	46			1.853		46
199HG	47			1.927		47
199HG	48			1.953		48
199HG	49			1.971	1/2, 3/2	49
199HG	50			1.988	1/2, 3/2	50

199HG	51			2.038		51
199HG	52			2.067	1/2, 3/2, 5/2+	52
199HG	53			2.094	1/2, 3/2	53
199HG	54			2.107	(25/2+)	54
199HG	55			2.144	1/2, 3/2, 5/2+	55
199HG	56			2.175		56
199HG	57			2.218		57
199HG	58			2.228	1/2, 3/2	58
199HG	59			2.241	1/2, 3/2	59
199HG	60			2.265	1/2, 3/2	60

199HG	61			2.279		61
199HG	62			2.291	1/2, 3/2	62
199HG	63			2.332	(21/2-)	63
199HG	64			2.345	1/2, 3/2	64
199HG	65			2.399	1/2, 3/2, 5/2+	65
199HG	66			2.412	1/2, 3/2, 5/2+	66
199HG	67			2.426	(23/2-)	67
199HG	68			2.451	1/2, 3/2, 5/2+	68
199HG	69			2.462	1/2, 3/2	69
199HG	70			2.488	(25/2-)	70

199HG	71			2.494	1/2, 3/2	71
199HG	72			2.521		72
199HG	73			2.630	(27/2-)	73
199HG	74			2.766	(29/2-)	74
199HG	75			3.068	(31/2-)	75
199HG	76			3.133		76
199HG	77			3.199		77
199HG	78			3.245		78
199HG	79			3.273		79
199HG	80			3.338		80

199HG	81			3.413		81
199HG	82			3.431		82

199HG 83				3.511	83
199HG 84				3.582	84
199HG 85				3.604	85
199HG 86				3.626	86
199HG 87				3.648	87
199HG 88				3.930	88
199HG 89				3.988	89
199HG 90				4.052	90

199HG 91				4.098	91
199HG 92				4.491	92
199HG 93				4.808	93

S-p = 7.254 (0.001)-----
S-n = 6.663 (0.001)-----
S-2p = 13.704 (0.001)-----
S-2n = 15.149 (0.003)-----
S-alpha= -0.823 (0.001)-----

S+p = -4.790 (0.006)
S+n = -8.028 (0.001)
S+2p = -10.303 (0.014)
S+2n = -14.259 (0.001)
S+alpha = 2.335 (0.007)

gap p = 2.464 (0.006)
gap n = -1.365 (0.001)
gap 2p = 3.401 (0.014)
gap 2n = 0.890 (0.003)
gap alpha = 1.512 (0.007)