

^{198}Hg $Z = 80$ $N = 118$ adopted link ENSDF link

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

BE = 1566.488 (0.000) MeV

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

S-alpha=	-1.381	(0.001)	-----					
198HG 1	0.000	0+						1 STABLE
198HG 2	0.412	2+						2 23.15 PS 28
198HG 3	1.049	4+						3 7.2 PS 3
198HG 4	1.088	2+						4 40.4 PS 5
198HG 5	1.402	0+						5
198HG 6	1.419	3+						6
198HG 7						1.548	(1,2+)	7
198HG 8	1.550	0+						8
198HG 9	1.612	2+						9
198HG 10				1.636	5-			10 62 PS 11

198HG 11				1.683	7-			11 6.9 NS 2
198HG 12	1.760	0+						12
198HG 13	1.816	6+						13 3.4 PS 3
198HG 14	1.833	2+						14
198HG 15	1.835	4+						15
198HG 16	1.847	3+						16
198HG 17	1.859	2+						17
198HG 18						1.899	1+,2+	18
198HG 19						1.902	(2+)	19
198HG 20				1.910	6-			20

198HG 21				1.911	9-			21 0.28 NS 5
198HG 22				1.929	3-			22
198HG 23						1.960	0+,1,2,3,4+	23
198HG 24						1.965		24
198HG 25						1.971	2+,3,4+	25
198HG 26						2.005	0+,1,2,3,4+	26
198HG 27						2.048	0+,1,2,3,4+	27
198HG 28						2.049		28
198HG 29				2.059	6-			29
198HG 30						2.071	1+,2+	30

198HG 31						2.091	4+,5+	31
198HG 32						2.110	1,2+	32
198HG 33						2.125	6-,7-	33
198HG 34						2.133	1+,2+	34
198HG 35				2.135	5-			35
198HG 36	2.169	2+						36
198HG 37						2.178	1,2+	37

198HG	38					2.203	6-,7-	38
198HG	39					2.209	1,2+	39
198HG	40					2.219	0+,1,2,3,4+	40

198HG	41	2.268	2+					41
198HG	42					2.277	1+,2,3,4,5+	42
198HG	43					2.287	1,2+	43
198HG	44					2.296	2+,3,4,5,6+	44
198HG	45					2.320	1,2+	45
198HG	46	2.332	4+					46
198HG	47	2.338	8+					47 79 PS 43
198HG	48	2.361	3+					48
198HG	49					2.400		49
198HG	50	2.435	10+					50 1.92 NS 9

198HG	51					2.450	1+,2+	51
198HG	52					2.452	(1,3)	52
198HG	53	2.465	2+					53
198HG	54			2.467	11-			54
198HG	55					2.480		55
198HG	56					2.486	1,2+	56
198HG	57			2.487	3-			57
198HG	58					2.516	4-,5,6,7,8-	58
198HG	59					2.525	(3-)	59
198HG	60			2.535	3-			60

198HG	61					2.550		61
198HG	62					2.564	1,2+	62
198HG	63	2.578	12+					63 1.38 NS 4
198HG	64					2.600	1+,2+	64
198HG	65					2.602		65
198HG	66					2.612	1,2+	66
198HG	67					2.644	2+,3,4+	67
198HG	68					2.656	1-,2,3,4,5-	68
198HG	69					2.695	1,2+	69
198HG	70					2.731	2+,3,4+	70

198HG	71					2.756	(8+)	71 1.8 PS 5
198HG	72	2.783	2+					72
198HG	73					2.816	1,2+	73
198HG	74					2.826	1,2+	74
198HG	75					2.835	1,2+	75
198HG	76					2.840		76
198HG	77					2.845	1,2+	77
198HG	78					2.862	1,2+	78
198HG	79					2.869	1,2+	79
198HG	80					2.894	1,2+	80

198HG	81	2.926	14+					81 120 PS LT
198HG	82					2.940		82

198HG 83				2.955	1,2+	83
198HG 84				2.976	1,2+	84
198HG 85				2.987	1,2+	85
198HG 86				2.990		86
198HG 87				3.013		87
198HG 88				3.022	1,2+	88
198HG 89				3.070		89
198HG 90				3.096	1,2+	90

198HG 91				3.128	1,2+	91
198HG 92				3.150		92
198HG 93				3.165	1,2+	93
198HG 94				3.200		94
198HG 95				3.270		95
198HG 96		3.326	13-			96
198HG 97				3.440		97
198HG 98		3.486	16+			98
198HG 99		4.262	18+			99
198HG 100				4.302	(15-)	100

198HG 101				4.636	(17-)	101
198HG 102				5.284	(20+)	102

S-p = 7.104 (0.001)-----
S-n = 8.485 (0.003)-----
S-2p = 12.888 (0.001)-----
S-2n = 15.271 (0.003)-----
S-alpha= -1.381 (0.001)-----

S+p = -4.394 (0.028)
S+n = -6.663 (0.001)
S+2p = -9.875 (0.010)
S+2n = -14.692 (0.001)
S+alpha = 2.589 (0.004)

gap p = 2.709 (0.028)
gap n = 1.822 (0.003)
gap 2p = 3.013 (0.010)
gap 2n = 0.579 (0.003)
gap alpha = 1.208 (0.004)