

$^{198}\text{Hg}$        $Z = 80$        $N = 118$       [link to full NNDC output](#)

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

BE = 1566.487 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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 ( 0.011)  
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 ( 0.011)  
gap 2n = 0.579 ( 0.003)  
gap alpha = 1.208 ( 0.004)