

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

Based on ensdf\_240402 (Apr 2024), and mass evaluation from 2020

BE = 1566.488 ( 0.000) MeV

	Energy T	J+		J-		J-other		T1/2
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S-alpha=	-1.381	( 0.001)	-----					
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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,	23	
198HG 24						1.965	24	
198HG 25						1.971 2+,3,4+	25	
198HG 26						2.005 0+,1,2,3,	26	
198HG 27						2.048 0+,1,2,3,	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,	40		
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198HG	41	2.268	2+					41		
198HG	42					2.277	1+,2,3,4,	42		
198HG	43					2.287	1,2+	43		
198HG	44					2.296	2+,3,4,5,	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,	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,	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 ( 0.010)  
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)