

⁹⁷Rh Z = 45 N = 52 adopted link ENSDF link

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

BE = 830.310 (0.035) MeV

Qbeta+ = 3.523 (0.036) MeV

	Energy T	J+	J-	J-other	T1/2
97RH 1	0.000	9/2+			1 30.7 M 6
97RH 2			0.259 1/2-		2 46.2 M 16
97RH 3				0.265 (7/2+)	3
97RH 4				0.475 (5/2+,7/2)	4
97RH 5				0.845 (1/2+)	5
97RH 6				0.850 (5/2-)	6
97RH 7				0.858 (13/2+)	7
97RH 8				0.864 (9/2)	8
97RH 9				1.005 (3/2-)	9
97RH 10				1.058 (5/2+)	10
97RH 11				1.199 (5/2+,7/2)	11
97RH 12				1.243 (11/2+)	12
97RH 13				1.376 (9/2-)	13
97RH 14				1.416 (3/2+,5/2,7/2)	14
S-alpha=	1.416 (0.035)				
97RH 15				1.464 (15/2+)	15
97RH 16				1.471 (3/2,7/2)	16
97RH 17				1.529 (3/2,5/2,7/2)	17
97RH 18				1.542	18
97RH 19				1.553 (17/2+)	19
97RH 20				1.619 (3/2+,5/2,7/2)	20
97RH 21				1.635	21
97RH 22				1.760 (5/2+,7/2+)	22
97RH 23				1.775 (11/2+,13/2,15/2 23+)	23
97RH 24				1.906 (3/2,5/2,7/2)	24
97RH 25				1.928 (13/2-)	25
97RH 26				1.962 (19/2+)	26
97RH 27				1.984 (11/2+,13/2,15/2 27+)	27
97RH 28				1.994 (5/2+,7/2+)	28
97RH 29				2.062	29
97RH 30				2.068 (3/2,5/2,7/2)	30
97RH 31				2.098	31
97RH 32				2.104	32
97RH 33				2.113 (5/2+,7/2+)	33
97RH 34				2.127	34
97RH 35				2.147	35
97RH 36				2.187 (3/2,5/2,7/2)	36

97RH 37				2.225	(17/2-)	37
97RH 38				2.230	(5/2+, 7/2+)	38
97RH 39				2.271		39
97RH 40				2.273		40

97RH 41				2.295	(3/2+, 5/2+, 7/2+	41)
97RH 42				2.298		42
97RH 43				2.354		43
97RH 44				2.373		44
97RH 45				2.617	(21/2+)	45
97RH 46				2.896	(23/2+)	46
97RH 47				2.904	(5/2+, 7/2+)	47
97RH 48				2.950	(5/2+, 7/2+)	48
97RH 49				3.056	(21/2-)	49
97RH 50				3.091	(3/2+, 5/2+, 7/2+	50)

97RH 51				3.096	(21/2)	51
97RH 52				3.240	(5/2+, 7/2+)	52
97RH 53				3.260	(23/2+)	53
97RH 54				3.345	(23/2)	54
97RH 55				3.551	(25/2+)	55
97RH 56				3.607	(3/2+, 5/2+, 7/2+	56)

S-p	=	3.806	(0.035)	-----		
97RH 57				4.016	(27/2+)	57
97RH 58				4.074	(25/2-)	58
97RH 59				4.275	(29/2+)	59
97RH 60				4.824	(31/2+)	60

97RH 61				5.159	(29/2-)	61
97RH 62				5.516	(33/2+)	62
97RH 63				5.965		63
97RH 64				5.974	(31/2-)	64
97RH 65				6.192	(35/2+)	65
97RH 66				6.441	(33/2-)	66
97RH 67				6.472	(33/2)	67
97RH 68				6.503		68
97RH 69				6.774	(37/2+)	69
97RH 70				6.912	(35/2)	70

97RH 71				6.973		71
97RH 72				7.079		72
97RH 73				7.328		73
97RH 74				7.584		74
97RH 75				7.687		75
97RH 76				7.699	(35/2-)	76
97RH 77				7.954		77
97RH 78				8.004		78
97RH 79				8.282		79
97RH 80				8.364	(39/2)	80

97RH	81				8.492		81
97RH	82				8.510	(5/2+)	82
97RH	83				8.594		83
97RH	84				9.079		84
97RH	85				9.204		85
97RH	86				9.242		86
97RH	87				9.400	(1/2+)	87

S-p = 3.806 (0.035)-----
 S-n = 10.981 (0.037)-----
 S-2p = 11.154 (0.036)-----
 S-2n = 20.399 (0.036)-----
 S-alpha= 1.416 (0.035)-----

S+p = -6.012 (0.036)
 S+n = -8.649 (0.037)
 S+2p = -8.693 (0.036)
 S+2n = -19.130 (0.040)
 S+alpha = -1.162 (0.036)

gap p = -2.206 (0.050)
 gap n = 2.332 (0.053)
 gap 2p = 2.461 (0.051)
 gap 2n = 1.270 (0.054)
 gap alpha = 0.254 (0.050)