

^{81}Br $Z = 35$ $N = 46$ adopted link ENSDF link

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

BE = 704.372 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2	
81BR 1			0.000	3/2-	1 STABLE	
81BR 2			0.276	5/2-	2 9.7 PS 14	
81BR 3	0.536	9/2+			3 34.6 US 28	
81BR 4				0.538	1/2-,3/2-	4 0.76 PS 3
81BR 5			0.566	3/2-	5 77 PS 23	
81BR 6				0.650	(3/2)-	6 2.6 PS 3
81BR 7				0.767	(5/2)-	7 0.55 PS 3
81BR 8	0.789	5/2+			8	
81BR 9			0.828	3/2-	9 0.49 PS 7	
81BR 10			0.837	7/2-	10 1.10 PS 10	
81BR 11				0.906	11	
81BR 12				0.975	12	
81BR 13				1.024	5/2(-)	13
81BR 14				1.076		14
81BR 15				1.105	(1/2)-	15
81BR 16				1.170		16
81BR 17				1.177	(13/2)+	17
81BR 18				1.190	5/2-,7/2-	18
81BR 19				1.238		19
81BR 20				1.266	9/2(-)	20
81BR 21				1.267	(3/2-,5/2,7/2-)	21
81BR 22				1.300		22
81BR 23				1.323	(5/2)-	23 0.31 PS LE
81BR 24				1.327		24
81BR 25				1.350		25
81BR 26	1.372	7/2+			26	
81BR 27				1.401		27
81BR 28				1.482	(7/2-)	28
81BR 29				1.513	(1/2-,3/2-)	29
81BR 30				1.522	(11/2+)	30
81BR 31				1.536	(3/2-)	31
81BR 32				1.536		32
81BR 33				1.542	(9/2+)	33
81BR 34				1.543		34
81BR 35				1.543	(3/2-)	35
81BR 36	1.587	1/2+			36	
81BR 37				1.587		37
81BR 38				1.615		38

81BR 39				1.671		39
81BR 40				1.681	(7/2-)	40

81BR 41				1.696	(3/2+)	41
81BR 42				1.752		42
81BR 43				1.789	(7/2+)	43
81BR 44				1.799	(5/2-)	44
81BR 45				1.866	(3/2-)	45
81BR 46				1.885	(3/2-, 5/2, 7/2-)	46
81BR 47				1.946	11/2(-)	47
81BR 48				1.948	(9/2)+	48
81BR 49				1.986	3/2+, 5/2+	49
81BR 50				1.996	7/2(-)	50

81BR 51				2.000		51
81BR 52				2.022	(5/2+)	52
81BR 53				2.056	1/2-, 3/2-	53
81BR 54				2.085	7/2+, 9/2+	54
81BR 55				2.118	3/2+, 5/2+	55
81BR 56				2.164	1/2-, 3/2-	56
81BR 57				2.215		57
81BR 58				2.221	(3/2, 5/2)	58
81BR 59				2.245		59
81BR 60				2.278	(17/2+)	60

81BR 61		2.288	1/2+			61
81BR 62				2.305	(7/2-)	62
81BR 63				2.388	(13/2-)	63
81BR 64				2.410		64
81BR 65				2.421		65
81BR 66				2.478		66
81BR 67				2.532		67
81BR 68				2.549	(13/2-)	68
81BR 69				2.620		69
81BR 70				2.657	3/2+, 5/2+	70

81BR 71				2.668	(15/2-)	71 0.2 NS LT
81BR 72				2.704	1/2-, 3/2-	72
81BR 73				2.732	+	73
81BR 74				2.788		74
81BR 75				2.797		75
81BR 76				2.912		76
81BR 77				2.940		77
81BR 78				2.942	(17/2-)	78
81BR 79				3.001		79
81BR 80				3.027		80

81BR 81				3.067		81
81BR 82				3.089		82
81BR 83				3.101		83

81BR 84			3.190		84
81BR 85			3.196		85
81BR 86			3.242		86
81BR 87			3.322		87
81BR 88			3.333	(19/2-)	88 0.69 PS 28
81BR 89			3.429		89
81BR 90			3.508		90

81BR 91			3.527	(21/2+)	91
81BR 92			3.598		92
81BR 93			3.680		93
81BR 94			3.740		94
81BR 95			3.759		95
81BR 96			3.799	(21/2-)	96
81BR 97			3.835		97
81BR 98			3.965		98
81BR 99			4.106		99
81BR 100			4.174		100

81BR 101			4.302		101
81BR 102			4.428		102
81BR 103			4.512		103
81BR 104			4.559		104
81BR 105			5.632		105
81BR 106			5.791		106

S-p = 7.507 (0.001)-----
S-n = 10.159 (0.001)-----
S-2p = 18.919 (0.005)-----
S-2n = 18.052 (0.001)-----
S-alpha= 6.486 (0.002)-----

S+p = -9.904 (0.001)
S+n = -7.593 (0.001)
S+2p = -15.672 (0.003)
S+2n = -17.179 (0.004)
S+alpha = -6.615 (0.001)

gap p = -2.397 (0.002)
gap n = 2.566 (0.002)
gap 2p = 3.247 (0.006)
gap 2n = 0.872 (0.004)
gap alpha = -0.130 (0.002)