

$^{81}\text{Br}$        $Z = 35$        $N = 46$       [link to full NNDC output](#)

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

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
81BR 107			SP+3780		107 18.7 KEV 23
81BR 108			SP+3885		108
81BR 109			SP+4249		109 18 KEV 3
81BR 110			SP+4791		110 18.1 KEV 24
-----					
81BR 111			SP+4922		111 48 KEV 4
81BR 112			SP+5003		112 32 KEV 3
81BR 113			SP+5162		113 24 KEV 4

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 = -15.671 ( 0.003)  
S+2n = -17.179 ( 0.004)  
S+alpha = -6.615 ( 0.001)

gap p = -2.397 ( 0.002)  
gap n = 2.567 ( 0.002)  
gap 2p = 3.247 ( 0.006)

gap 2n = 0.872 ( 0.004)  
gap alpha = -0.129 ( 0.002)