

^{80}Br $Z = 35$ $N = 45$ adopted link ENSDF link

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

BE = 694.212 (0.001) MeV

Qbeta- = 2.004 (0.001) MeV

Qbeta+ = 1.870 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
80BR 1	0.000	1+			1 17.68 M 2
80BR 2			0.037 2-		2 7.43 NS 6
80BR 3			0.086 5-		3 4.4205 H 8
80BR 4				0.256 (2)-	4
80BR 5				0.271 (2)+	5
80BR 6				0.281 (3)-	6
80BR 7				0.300 (0+,1+,2+)	7
80BR 8				0.309 (4)-	8
80BR 9				0.315 (1)+	9
80BR 10	0.331	5+			10 0.7 NS 2
80BR 11				0.331 (3)-	11
80BR 12				0.357 (6+)	12 0.4 NS 2
80BR 13				0.367 (1,2)-	13
80BR 14				0.380 (6-)	14
80BR 15				0.380 (3)-	15
80BR 16				0.386 (4-)	16
80BR 17				0.391 (4)-	17
80BR 18				0.448 (7+)	18
80BR 19				0.456 (4)-	19
80BR 20				0.469 (2)+	20
80BR 21				0.469 (3)-	21
80BR 22				0.493 (2)-	22
80BR 23				0.500 (4)-	23
80BR 24				0.523 (5-)	24
80BR 25				0.547 (3 TO 6)-	25
80BR 26				0.550 (3)+	26
80BR 27				0.573 (3,4,5)-	27
80BR 28				0.586 (3+)	28
80BR 29				0.609	29
80BR 30				0.615 (8+)	30
80BR 31				0.616 (4-)	31
80BR 32				0.646 (3 TO 7)	32
80BR 33				0.661 (2)+	33
80BR 34				0.683 (3,4-,5-)	34
80BR 35				0.685 (3-)	35
80BR 36				0.695 (4)	36

80BR 37				0.718	(3,4-,5)	37
80BR 38				0.724	(1,2)	38
80BR 39				0.727	(1-,2,3)	39
80BR 40				0.731	(2)+	40

80BR 41				0.737	(1-,2-)	41
80BR 42				0.755	(4-)	42
80BR 43				0.766	(1,2)+	43
80BR 44				0.771	(4-,5-,6-)	44
80BR 45				0.774	(7-)	45
80BR 46				0.805	(1,2,3)	46
80BR 47				0.814	(2,3)+	47
80BR 48				0.822		48
80BR 49				0.825	(6,7+)	49
80BR 50				0.831	(2)+	50

80BR 51				0.852	(3)+	51
80BR 52				0.861	(2+)	52
80BR 53				0.884	(LE 3)	53
80BR 54				0.908	(1-,2,3)	54
80BR 55				0.915	(0+,1,2)	55
80BR 56				0.919		56
80BR 57				0.958	(1,2,3)+	57
80BR 58				0.972	(1 TO 4)	58
80BR 59				0.988		59
80BR 60				0.997	(2,3)+	60

80BR 61				1.021	(LE 4)	61
80BR 62				1.022	(1-,2,3+)	62
80BR 63				1.033	(8+)	63
80BR 64				1.052	(LE 3)	64
80BR 65				1.054	(1,2,3)	65
80BR 66				1.065	(2-,3,4-)	66
80BR 67				1.076	(1 TO 4)	67
80BR 68				1.117	(1,2,3)+	68
80BR 69				1.130	(5-,7-)	69
80BR 70				1.141	(9+)	70

80BR 71				1.143	(1-,2,3+)	71
80BR 72				1.146	(1,2,3)+	72
80BR 73				1.148	(1-,2,3+)	73
80BR 74				1.191	(1-,2,3+)	74
80BR 75				1.198	(LE 4)	75
80BR 76				1.203	(1-,2,3+)	76
80BR 77				1.212	(1 TO 4)	77
80BR 78				1.224	(LE 3)	78
80BR 79				1.249	(LE 3)+	79
80BR 80				1.260		80

80BR 81				1.274	(1,2,3)+	81

80BR 82			1.279		82
80BR 83			1.301		83
80BR 84			1.320	(LE 3)	84
80BR 85			1.322	(1-,2,3+)	85
80BR 86			1.347		86
80BR 87			1.358		87
80BR 88			1.359	(3-)	88
80BR 89			1.383	(1,2,3)+	89
80BR 90			1.401	(1+ TO 5+)	90

80BR 91			1.406		91
80BR 92			1.428	(1,2,3)+	92
80BR 93			1.445		93
80BR 94			1.499	(LE 3)+	94
80BR 95			1.520	(1,2,3)+	95
80BR 96			1.534	(7+,9+)	96
80BR 97			1.576	(LE 3)+	97
80BR 98			1.588	(10+)	98 0.76 PS +27-21
80BR 99			1.598	(3- TO 6-)	99
80BR 100			1.637		100

80BR 101			1.665		101
80BR 102			1.702	(1- TO 4-)	102
80BR 103			1.724	(1,2,3)+	103
80BR 104			1.746	(1 TO 4)-	104
80BR 105			1.759	(1+,2+,3+)	105
80BR 106			1.851	(9-)	106
80BR 107			1.857		107
80BR 108			1.880	(1- TO 4-)	108
80BR 109			1.953		109
80BR 110			1.954	(7-,9-)	110

80BR 111			2.002	(8+,10+)	111
80BR 112			2.257	(11+)	112 0.35 PS 14
80BR 113			2.379		113
80BR 114			2.797	(9+,11+)	114
80BR 115			2.915	(9-,11-)	115
80BR 116			2.944	(12+)	116 0.63 PS +21-14
80BR 117			3.212		117
80BR 118			3.605	(13+)	118
80BR 119			3.658		119
80BR 120			4.450	(14+)	120

S-p = 7.261 (0.001)-----
S-n = 7.892 (0.001)-----
S-2p = 17.650 (0.010)-----
S-2n = 18.580 (0.004)-----
S-alpha= 6.023 (0.001)-----

S+p = -9.096 (0.001)
S+n = -10.159 (0.001)
S+2p = -14.877 (0.003)
S+2n = -17.752 (0.001)
S+alpha = -6.295 (0.002)

gap p = -1.835 (0.002)
gap n = -2.267 (0.002)
gap 2p = 2.773 (0.010)
gap 2n = 0.827 (0.004)
gap alpha = -0.272 (0.003)