

^{81}Se $Z = 34$ $N = 47$ [link to full NNDC output](#)

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

BE = 703.566 (0.001) MeV

Qbeta- = 1.588 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
81SE 1			0.000	1/2-	1 18.45 M 12
81SE 2	0.103	7/2+			2 57.28 M 2
81SE 3	0.294	9/2+			3
81SE 4			0.468	3/2-	4
81SE 5				0.491 (5/2)-	5
81SE 6				0.616	6
81SE 7			0.624	5/2-	7
81SE 8				0.782 7/2+,9/2+	8
81SE 9				0.889 (3/2+,5/2,7/2+)	9
81SE 10	1.053	5/2+			10
81SE 11				1.109 3/2+,5/2+	11
81SE 12	1.233	1/2+			12
81SE 13	1.303	5/2+			13
81SE 14			1.406	3/2-	14
81SE 15				1.628 1/2-,3/2-	15
81SE 16	1.703	3/2+			16
81SE 17				1.711 (1/2,3/2,5/2-)	17
81SE 18				1.725 (3/2)+	18
81SE 19				1.812 7/2+,9/2+	19
81SE 20	1.828	3/2+			20
81SE 21				2.030 1/2-,3/2-	21
81SE 22				2.150 1/2-,3/2-	22
81SE 23				2.174	23
81SE 24				2.179	24
81SE 25				2.253 (5/2+)	25
81SE 26				2.282 1/2-,3/2-	26
81SE 27	2.333	5/2+			27
81SE 28				2.383 (5/2-,7/2,9/2-)	28
81SE 29				2.475	29
81SE 30				2.532 (5/2)+	30
81SE 31				2.569 (1/2,3/2)	31
81SE 32				2.570 1/2-,3/2-,5/2-	32
81SE 33				2.596 1/2-,3/2-	33
81SE 34			2.660	5/2-	34
81SE 35				2.734	35
81SE 36				2.770 (5/2)-	36
81SE 37	2.774	5/2+			37

81SE	38				2.891	(7/2+,9/2+)	38
81SE	39				2.935	(5/2)-	39
81SE	40				2.938	(1/2+)	40

81SE	41				2.953	1/2,3/2,5/2+	41
81SE	42				2.965	(5/2)-	42
81SE	43				2.985		43
81SE	44				2.986	(1/2+)	44
81SE	45	3.053	3/2+				45
81SE	46				3.093		46
81SE	47				3.150	(-)	47
81SE	48				3.208		48
81SE	49				3.223	(5/2)-	49
81SE	50				3.287		50

81SE	51				3.308		51
81SE	52				3.349	1/2-,3/2-	52
81SE	53				3.379		53
81SE	54				3.411		54
81SE	55				3.435		55
81SE	56				3.477		56
81SE	57				3.526	1/2,3/2,5/2+	57
81SE	58				3.562		58
81SE	59	3.682	3/2+				59
81SE	60				3.774	3/2+,5/2+	60

81SE	61	3.830	1/2+				61
81SE	62				3.920	(1/2+)	62
81SE	63				3.970	(1/2+)	63
81SE	64				4.095		64
81SE	65				4.137		65
81SE	66				4.164		66
81SE	67				4.215	(3/2+,5/2+)	67
81SE	68				4.260	(3/2+,5/2+)	68
81SE	69				4.437		69
81SE	70				4.559		70

81SE	71				4.656		71
81SE	72				4.708		72
81SE	73				4.845		73
81SE	74				4.958		74
81SE	75				5.080		75
81SE	76				5.180		76
81SE	77				5.330		77

S-p = 11.464 (0.003)-----
S-n = 6.701 (0.001)-----
S-2p = 21.440 (0.037)-----
S-2n = 16.614 (0.001)-----

S-alpha= 7.601 (0.001)-----

S+p = -8.399 (0.001)

S+n = -9.276 (0.001)

S+2p = -18.180 (0.001)

S+2n = -15.094 (0.003)

S+alpha = -7.516 (0.002)

gap p = 3.065 (0.004)

gap n = -2.575 (0.002)

gap 2p = 3.261 (0.037)

gap 2n = 1.520 (0.003)

gap alpha = 0.085 (0.002)