

^{77}As $Z = 33$ $N = 44$ [link to full NNDC output](#)

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

BE = 669.590 (0.002) MeV

Qbeta- = 0.683 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
77AS 1			0.000	3/2-	1 38.79 H 5
77AS 2			0.195	3/2-	2 7.4 NS 3
77AS 3			0.216	3/2-	3 0.3 NS LT
77AS 4			0.264	5/2-	4 304 PS 3
77AS 5	0.475	9/2+			5 114.0 US 25
77AS 6			0.504	1/2-	6
77AS 7			0.614	3/2-	7
77AS 8	0.632	5/2+			8 60 PS 6
77AS 9				0.634 5/2+,7/2-	9
77AS 10			0.785	7/2-	10
77AS 11				0.875 3/2-,5/2+	11
77AS 12				0.889 3/2-,5/2,7/2-	12
77AS 13				1.008 (1/2-,3/2-)	13
77AS 14				1.048 (13/2+)	14
77AS 15				1.052 1/2-,3/2-	15
77AS 16				1.059 (9/2-)	16
77AS 17	1.158	1/2+			17
77AS 18			1.165	5/2-	18
77AS 19			1.190	7/2-	19 0.2 NS LT
77AS 20	1.201	1/2+			20
77AS 21				1.221 (11/2+)	21
77AS 22				1.280 (LE 7/2)	22
77AS 23			1.320	7/2-	23
77AS 24				1.345 (3/2-,5/2,7/2-)	24
77AS 25				1.350 (3/2-,5/2,7/2-)	25
77AS 26				1.398 (5/2-,7/2-)	26
77AS 27				1.399 (7/2+)	27
77AS 28				1.458 (5/2,7/2-)	28
77AS 29	1.528	5/2+			29
77AS 30				1.539 (1/2+,3/2,5/2+)	30
77AS 31	1.560	5/2+			31 0.1 NS LT
77AS 32				1.574 (3/2-,5/2,7/2-)	32
77AS 33				1.605 1/2-,3/2-	33
77AS 34				1.617 1/2-,3/2-	34
77AS 35				1.654 1/2-,3/2-	35
77AS 36				1.654 7/2+,9/2+	36
77AS 37				1.676 1/2-,3/2-	37

77AS 38						1.733	(3/2-, 5/2+)	38
77AS 39						1.737	(13/2+)	39
77AS 40						1.760		40

77AS 41						1.838	(LE 7/2)	41
77AS 42						1.888	(15/2+)	42
77AS 43						1.930		43
77AS 44						1.971	7/2+, 9/2+	44
77AS 45		2.000	5/2+					45
77AS 46						2.000	(17/2+)	46
77AS 47		2.111	5/2+					47
77AS 48						2.124		48
77AS 49				2.196	1/2-			49
77AS 50						2.335	1/2-, 3/2-	50

77AS 51						2.342	(5/2)+	51
77AS 52						2.354	(7/2-)	52
77AS 53						2.372	(3/2+, 5/2+)	53
77AS 54						2.425	(7/2-)	54
77AS 55						2.463	(5/2, 7/2, 9/2+)	55
77AS 56						2.513		56
77AS 57						2.513	(7/2)+	57
77AS 58						2.544	(5/2, 7/2-)	58
77AS 59						2.544	1/2-, 3/2-	59
77AS 60						2.585	(13/2-)	60

77AS 61						2.623	1/2-, 3/2-	61
77AS 62						2.623	7/2+, 9/2+	62
77AS 63						2.655	1/2-, 3/2-	63
77AS 64						2.745	(15/2-)	64
77AS 65						2.750	3/2+, 5/2+	65
77AS 66						2.846		66
77AS 67						2.934	(3/2:9/2)+	67
77AS 68						3.003	(17/2-)	68
77AS 69						3.009	(5/2-, 7/2, 9/2+)	69
77AS 70						3.086		70

77AS 71						3.118	(3/2+, 5/2+)	71
77AS 72						3.151	(21/2+)	72
77AS 73						3.190		73
77AS 74						3.258		74
77AS 75						3.312	3/2+, 5/2+	75
77AS 76						3.364	(19/2-)	76
77AS 77						3.376		77
77AS 78		3.483	1/2+					78
77AS 79						3.559	1/2-, 3/2-	79
77AS 80						3.593	1/2+&3/2+, 5/2+	80

77AS 81		3.633	1/2+					81
77AS 82						3.676	1/2+&7/2+, 9/2+	82

77AS 83		3.742	1/2+				83
77AS 84					3.770	(3/2:9/2)+	84
77AS 85					3.835	1/2+&7/2,9/2+	85
77AS 86					3.856	(21/2-)	86
77AS 87					3.885	1/2+&1/2-,3/2-	87
77AS 88					3.960	1/2+&3/2+,5/2+	88
77AS 89		4.022	1/2+				89
77AS 90					4.102	3/2+,5/2+	90

77AS 91					4.192	(1/2:9/2)	91
77AS 92					4.325	1/2+&3/2+,5/2+	92
77AS 93					4.456	(25/2+)	93
S-alpha=		6.642	(0.002)	-----			
S-p	=	7.992	(0.002)	-----			
S-n	=	9.696	(0.002)	-----			
77AS 94					12.070	(1/2-)	94
77AS 95					12.128	(9/2+)	95
77AS 96					12.426	(5/2+)	96
77AS 97					12.544	(3/2-)	97
77AS 98					12.804	(5/2+)	98
77AS 99					12.924		99
77AS 100					13.094		100

77AS 101					13.243		101
77AS 102					13.439	(1/2+)	102
77AS 103					13.697		103

S-p	=	7.992	(0.002)	-----			
S-n	=	9.696	(0.002)	-----			
S-2p	=	20.030	(0.003)	-----			
S-2n	=	17.025	(0.002)	-----			
S-alpha=		6.642	(0.002)	-----			
S+p	=	-10.399	(0.002)				
S+n	=	-6.972	(0.010)				
S+2p	=	-16.730	(0.002)				
S+2n	=	-15.862	(0.006)				
S+alpha	=	-6.486	(0.002)				
gap p	=	-2.406	(0.002)				
gap n	=	2.724	(0.010)				
gap 2p	=	3.300	(0.004)				
gap 2n	=	1.162	(0.006)				
gap alpha	=	0.156	(0.003)				