

$^{78}\text{As}$        $Z = 33$        $N = 45$       [link to full NNDC output](#)

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

BE = 676.562 ( 0.010) MeV

Qbeta- = 4.209 ( 0.010) MeV

	Energy T	J+	J-	J-other	T1/2
78AS 1			0.000	2-	1 90.7 M 2
78AS 2				0.184 (3-)	2
78AS 3				0.212 (4-)	3 3.9 NS 8
78AS 4	0.277	1+			4
78AS 5	0.294	1+			5
78AS 6				0.365 (5-)	6 3.0 NS 6
78AS 7				0.372 (4+)	7 0.90 NS 28
78AS 8				0.439 (5-)	8
78AS 9				0.459	9
78AS 10				0.504 0-,1-,2-	10
78AS 11	0.536	1+			11
78AS 12				0.568 (5+)	12 0.69 NS LT
78AS 13				0.617 0-,1-,2-	13
78AS 14				0.622 (6+)	14
78AS 15				0.664	15
78AS 16				0.736	16
78AS 17				0.750 (7+)	17
78AS 18				0.752 0-,1-,2-	18
78AS 19				0.758 (6-)	19
78AS 20				0.848 (0-,1-,2-)	20
78AS 21				0.891	21
78AS 22				0.939	22
78AS 23	0.967	1+			23
78AS 24				1.008 (8+)	24
78AS 25	1.072	1+			25
78AS 26				1.105	26
78AS 27				1.131	27
78AS 28				1.178	28
78AS 29				1.273	29
78AS 30				1.355	30
78AS 31				1.428	31
78AS 32				1.480	32
78AS 33				1.503 (9+)	33
78AS 34				1.558	34
78AS 35				1.626	35
78AS 36				1.710	36
78AS 37				1.757	37

78AS	38				1.875		38
78AS	39				1.973		39
78AS	40				2.024	(10+)	40
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78AS	41				2.068		41
78AS	42				2.285		42
78AS	43				2.383		43

S-p = 8.893 ( 0.010)-----  
 S-n = 6.972 ( 0.010)-----  
 S-2p = 21.098 ( 0.010)-----  
 S-2n = 16.668 ( 0.010)-----  
 S-alpha= 7.192 ( 0.010)-----

S+p = -10.389 ( 0.010)  
 S+n = -8.890 ( 0.011)  
 S+2p = -17.650 ( 0.010)  
 S+2n = -15.540 ( 0.010)  
 S+alpha = -7.107 ( 0.010)

gap p = -1.496 ( 0.014)  
 gap n = -1.918 ( 0.015)  
 gap 2p = 3.448 ( 0.014)  
 gap 2n = 1.128 ( 0.014)  
 gap alpha = 0.086 ( 0.014)