

$^{33}\text{Ar}$        $Z = 18$        $N = 15$       [link to full NNDC output](#)

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

BE = 261.656 ( 0.000) MeV

Qbeta+ = 11.619 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
33AR 1	0.000	1/2+			1 173.0 MS 20
33AR 2				1.359 (3/2+)	2
33AR 3				1.798 (5/2+)	3
33AR 4				2.439 (3/2+)	4
33AR 5				3.154 (3/2+)	5
S-p =	3.339 ( 0.001)				
33AR 6				3.361 (5/2+)	6
33AR 7				3.456 (7/2+)	7
33AR 8				3.819 (5/2+)	8

S-p = 3.339 ( 0.001)-----  
 S-n = 15.255 ( 0.002)-----  
 S-2p = 4.920 ( 0.000)-----  
 S-2n = 0.000 ( 0.000)-----  
 S-alpha= 8.653 ( 0.050)-----

S+p = 0.000 ( 0.000)  
 S+n = -17.065 ( 0.000)  
 S+2p = 0.000 ( 0.000)  
 S+2n = -29.806 ( 0.001)  
 S+alpha = -6.177 ( 0.001)

gap p = 0.000 ( 0.000)  
 gap n = -1.810 ( 0.002)  
 gap 2p = 0.000 ( 0.000)  
 gap 2n = 0.000 ( 0.000)  
 gap alpha = 2.476 ( 0.050)