

^{33}Ar $Z = 18$ $N = 15$ adopted link ENSDF link

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

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 = 36.844 (0.186)-----
S-alpha= 8.715 (0.013)-----

S+p = 0.876 (0.204)
S+n = -17.065 (0.000)
S+2p = -0.004 (0.210)
S+2n = -29.806 (0.001)
S+alpha = -6.177 (0.001)

gap p = 4.214 (0.204)
gap n = -1.810 (0.002)
gap 2p = 4.915 (0.210)
gap 2n = 7.038 (0.186)
gap alpha = 2.538 (0.013)