

^{229}Ac $Z = 89$ $N = 140$ adopted link ENSDF link

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

BE = 1748.013 (0.012) MeV

Qbeta- = 1.104 (0.012) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-4.445 (0.017)				
229AC 1				0.000 (3/2+)	1 62.7 M 5
229AC 2				0.007 (5/2+)	2
229AC 3				0.021 (7/2+)	3
229AC 4				0.026 (9/2+)	4
229AC 5				0.070 (5/2-)	5
229AC 6				0.091 (13/2+)	6
229AC 7				0.104 (3/2-)	7
229AC 8				0.120 (7/2-)	8
229AC 9				0.141	9
229AC 10	0.151	1/2+			10

229AC 11				0.164 (7/2-)	11
229AC 12				0.175	12
229AC 13				0.189 (3/2+)	13
229AC 14				0.222	14
229AC 15				0.281	15
229AC 16				0.293	16
229AC 17				0.336 (3/2+)	17
229AC 18				0.368 (5/2+)	18
229AC 19				0.422	19
229AC 20				0.464	20

229AC 21				0.489	21
229AC 22				0.595	22
229AC 23				0.629	23
229AC 24				0.654	24
229AC 25				0.720	25
229AC 26				0.825	26
229AC 27				0.850	27
229AC 28				0.930 (11/2-)	28
229AC 29				1.004 (5/2-)	29
229AC 30				1.021	30

229AC 31				1.044	31
229AC 32				1.111	32
229AC 33				1.173	33
229AC 34				1.245	34

S-p = 5.539 (0.012)-----
S-n = 6.276 (0.012)-----
S-2p = 13.570 (0.013)-----
S-2n = 11.302 (0.012)-----
S-alpha= -4.445 (0.017)-----

S+p = -7.117 (0.012)
S+n = -4.923 (0.020)
S+2p = -11.844 (0.012)
S+2n = -11.070 (0.018)
S+alpha = 4.375 (0.012)

gap p = -1.577 (0.017)
gap n = 1.353 (0.023)
gap 2p = 1.727 (0.018)
gap 2n = 0.232 (0.022)
gap alpha = -0.070 (0.021)