

^{224}Ac $Z = 89$ $N = 135$ adopted link ENSDF link

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

BE = 1718.112 (0.004) MeV
 Qbeta- = 0.239 (0.010) MeV
 Qbeta+ = 1.408 (0.004) MeV

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

S-alpha=	-6.327	(0.006)	-----		
224AC 1			0.000	(0-)	1 2.78 H 16
224AC 2			0.018	(1-)	2
224AC 3			0.023	(2-)	3
224AC 4			0.030	(1+)	4
224AC 5			0.034		5
224AC 6			0.037	(2-)	6
224AC 7			0.044		7
224AC 8			0.046	(-)	8
224AC 9			0.047		9
224AC 10			0.049	(3-)	10

224AC 11			0.052	(2+)	11
224AC 12			0.064	(3+)	12
224AC 13			0.065		13
224AC 14			0.076		14
224AC 15			0.079	(3-)	15
224AC 16			0.080	(3+)	16
224AC 17			0.084		17
224AC 18			0.091	(+)	18
224AC 19			0.093		19
224AC 20			0.100		20

224AC 21			0.103	(4+)	21
224AC 22			0.105		22
224AC 23			0.109	(4-)	23
224AC 24			0.111	(+)	24
224AC 25			0.116	(4-)	25
224AC 26			0.130	(4+)	26
224AC 27			0.133		27
224AC 28			0.142	(5+)	28
224AC 29			0.147		29
224AC 30			0.159		30

224AC 31			0.169		31
224AC 32			0.177	(5+)	32
224AC 33			0.183	(5-)	33
224AC 34			0.212		34
224AC 35			0.220		35

224AC 36				0.236	(6-)	36
224AC 37				0.253	(6+)	37
224AC 38				0.283	(3-)	38
224AC 39				0.300		39
224AC 40				0.317		40

224AC 41				0.333	(3+)	41
224AC 42				0.354	(3-)	42
224AC 43				0.360	(3+)	43
224AC 44				0.381	(+)	44
224AC 45				0.396	(4-)	45
224AC 46				0.403	(4+)	46
224AC 47				0.448	(5-)	47
224AC 48				0.452	(5+)	48

S-p = 4.288 (0.005)-----
S-n = 5.662 (0.008)-----
S-2p = 10.722 (0.009)-----
S-2n = 12.530 (0.006)-----
S-alpha= -6.327 (0.006)-----

S+p = -5.213 (0.007)
S+n = -6.668 (0.006)
S+2p = -8.778 (0.012)
S+2n = -12.068 (0.005)
S+alpha = 6.265 (0.006)

gap p = -0.925 (0.008)
gap n = -1.006 (0.010)
gap 2p = 1.944 (0.015)
gap 2n = 0.463 (0.008)
gap alpha = -0.062 (0.008)