

^{31}Cl $Z = 17$ $N = 14$ [link to full NNDC output](#)

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

BE = 243.945 (0.003) MeV

Qbeta+ = 12.008 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
31CL 1	0.000	3/2+			1 190 MS 1
S-p	= 0.264 (0.003)				
31CL 2				0.750 (1/2+)	2
31CL 3				1.746 (3/2,5/2,7/2)+	3
31CL 4				2.436 (3/2,5/2,7/2)+	4
31CL 5				2.611 (3/2,5/2,7/2)	5
31CL 6				2.687 (3/2,5/2,7/2)+	6
31CL 7				3.641 (3/2,5/2,7/2)	7
31CL 8				4.044 (3/2,5/2,7/2)+	8
S-2p	= 4.660 (0.003)				
31CL 9				5.382 (3/2,5/2,7/2)+	9
31CL 10				5.617 (3/2,5/2,7/2)+	10
31CL 11				5.756 (3/2,5/2,7/2)+	11
31CL 12				6.526 (3/2,5/2,7/2)+	12
31CL 13				6.660 (3/2,5/2,7/2)+	13
31CL 14				6.833 (3/2,5/2,7/2)	14
31CL 15				7.378 (3/2,5/2,7/2)+	15
31CL 16				7.488 (3/2,5/2,7/2)+	16
31CL 17				7.594 (3/2,5/2,7/2)	17
S-alpha	= 8.737 (0.027)				
31CL 18				9.447 (3/2,5/2,7/2)+	18
31CL 19	12.314	5/2+			19
31CL 20				12.539 (3/2,5/2,7/2)+	20

S-p = 0.264 (0.003)

S-n = 0.000 (0.000)

S-2p = 4.660 (0.003)

S-2n = 36.339 (0.189)

S-alpha = 8.737 (0.027)

S+p = -2.455 (0.004)

S+n = -14.371 (0.003)

S+2p = 0.000 (0.000)

S+2n = -30.111 (0.003)

S+alpha = -6.563 (0.003)

gap p = -2.191 (0.005)

gap n = 0.000 (0.000)
gap 2p = 0.000 (0.000)
gap 2n = 6.228 (0.189)
gap alpha = 2.174 (0.027)