

$^{31}\text{Cl}$        $Z = 17$        $N = 14$       adopted link      ENSDF link

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

BE = 243.946 ( 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				0.737 (1/2+)	2
31CL 3				1.728 (5/2+)	3
31CL 4				2.418 (3/2,5/2,7/2)+	4
31CL 5				2.593 (3/2,5/2,7/2)	5
31CL 6				2.669 (3/2,5/2,7/2)+	6
31CL 7				3.622 (3/2,5/2,7/2)	7
31CL 8				4.020 (3/2,5/2,7/2)+	8
S-2p	= 4.660 ( 0.003)				
31CL 9				5.365 (3/2,5/2,7/2)+	9
31CL 10				5.598 (3/2,5/2,7/2)+	10
31CL 11				5.731 (3/2,5/2,7/2)+	11
31CL 12				6.512 (3/2,5/2,7/2)+	12
31CL 13				6.640 (5/2,7/2)+	13
31CL 14				6.825 (3/2,5/2,7/2)	14
31CL 15				7.361 (3/2,5/2,7/2)+	15
31CL 16				7.465 (3/2,5/2,7/2)+	16
31CL 17				7.576 (3/2,5/2,7/2)	17
31CL 18				7.919 (3/2)+	18
S-alpha=	8.800 ( 0.010)				
31CL 19				9.416 (3/2,5/2,7/2)+	19
S-p	= 0.264 ( 0.003)				
S-n	= 19.780 ( 0.024)				
S-2p	= 4.660 ( 0.003)				
S-2n	= 37.205 ( 0.203)				
S-alpha=	8.800 ( 0.010)				
S+p	= -2.455 ( 0.004)				
S+n	= -14.371 ( 0.003)				
S+2p	= 0.010 ( 0.198)				
S+2n	= -30.111 ( 0.003)				
S+alpha	= -6.563 ( 0.003)				
gap p	= -2.190 ( 0.005)				
gap n	= 5.409 ( 0.024)				
gap 2p	= 4.669 ( 0.198)				

gap 2n = 7.093 ( 0.203)  
gap alpha = 2.237 ( 0.010)