

^{80}Rb $Z = 37$ $N = 43$ adopted link ENSDF link

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

BE = 688.934 (0.002) MeV

Qbeta+ = 5.718 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
80RB 1	0.000	1+			1 33.4 S 7
80RB 2				0.175 (2-)	2
80RB 3				0.236 (LE 3)	3
80RB 4				0.335 (3-)	4 3.5 NS 7
80RB 5				0.376 (3+)	5
80RB 6				0.398 (4-)	6 2.70 NS 21
80RB 7				0.419 (4-)	7 1.11 NS 21
80RB 8				0.470 (4-)	8 0.76 NS 21
80RB 9				0.472 (4+)	9 4.9 NS 7
80RB 10				0.486 (5-)	10
80RB 11				0.494 (6+)	11 1.63 US 4
80RB 12				0.496 (5-)	12 0.42 NS 21
80RB 13	0.554	1+			13
80RB 14				0.581 (5-)	14
80RB 15	0.589	1+			15
80RB 16				0.644 (6-)	16
80RB 17				0.651 (8+)	17 13.9 NS 14
80RB 18				0.658 (7+,6-)	18
80RB 19				0.765 (6-)	19
80RB 20				0.884 (7-)	20
80RB 21				1.066 (7-)	21
80RB 22				1.108 (8-)	22
80RB 23				1.123 (9+)	23
80RB 24				1.205 (8-)	24
80RB 25				1.411 (8-)	25
80RB 26				1.542 (10+)	26 0.97 PS 35
80RB 27				1.592 (9-)	27
80RB 28				1.849 (9-)	28
80RB 29				1.934 (10-)	29
80RB 30				2.000 (10-)	30 1.0 PS +10-4
80RB 31				2.026 (11+)	31 0.30 PS 8
80RB 32				2.115 (11+)	32
80RB 33				2.260 (10-)	33
80RB 34				2.507 (11-)	34 0.48 PS 14
80RB 35				2.680 (12+)	35 0.22 PS 7
80RB 36				2.787 (11-)	36
80RB 37				2.865 (12-)	37

80RB	38				2.999	(12-)	38	0.40	PS	9
80RB	39				3.114	(12-)	39			
80RB	40				3.130	(13+)	40			

80RB	41				3.152	(13+)	41	0.23	PS	7
80RB	42				3.269	(12-)	42			
80RB	43				3.599	(13-)	43	0.31	PS	8
80RB	44				3.906	(13-)	44			
80RB	45				4.033	(14+)	45	0.12	PS	5
80RB	46				4.124	(14-)	46			
80RB	47				4.178	(14-)	47			
80RB	48				4.185	(14-)	48	0.17	PS	6
S-alpha=	4.311 (0.010)-----									
80RB	49				4.355	(14-)	49			
80RB	50				4.446	(15+)	50	0.12	PS	3

80RB	51				4.843	(15-)	51	0.28	PS	LT
80RB	52				4.902	(15-)	52			
S-p	= 5.022 (0.004)-----									
80RB	53				5.027	(15-)	53			
80RB	54				5.379	(16-)	54			
80RB	55				5.408	(16-)	55			
80RB	56				5.543	(16+)	56	0.16	PS	LT
80RB	57				5.547	(16-)	57	0.21	PS	LT
80RB	58				5.907	(17+)	58	0.06	PS	3
80RB	59				6.137	(17-)	59			
80RB	60				6.262	(17-)	60			

80RB	61				6.578	(18-)	61			
80RB	62				6.791	(18-)	62			
80RB	63				7.113	(18-)	63			
80RB	64				7.185	(18+)	64			
80RB	65				7.544	(19-)	65	0.06	PS	+8-3
80RB	66				7.554	(19+)	66			
80RB	67				7.875	(20-)	67			
80RB	68				8.862	(20-)	68			
80RB	69				9.005	(20+)	69			
80RB	70				9.038	(21-)	70			

80RB	71				9.329	(21+)	71	0.083	PS	LT
80RB	72				9.397	(22-)	72			

S-p	= 5.022 (0.004)-----									
S-n	= 9.444 (0.003)-----									
S-2p	= 13.301 (0.004)-----									
S-2n	= 21.383 (0.004)-----									
S-alpha=	4.311 (0.010)-----									
S+p	= -6.642 (0.004)									

S+n = -11.353 (0.005)
S+2p = -10.467 (0.006)
S+2n = -20.155 (0.004)
S+alpha = -4.144 (0.005)

gap p = -1.619 (0.005)
gap n = -1.909 (0.006)
gap 2p = 2.835 (0.007)
gap 2n = 1.228 (0.005)
gap alpha = 0.167 (0.011)