

$^{98}\text{Tc}$        $Z = 43$        $N = 55$       adopted link      ENSDF link

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

BE      =      843.781 ( 0.003) MeV  
 Qbeta- =      1.793 ( 0.007) MeV  
 Qbeta+ =      1.684 ( 0.003) MeV

	Energy T	J+	J-	J-other	T1/2
98TC 1				0.000 (6)+	1 4.2E+6 Y 3
98TC 2				0.022 (5)+	2 2.4 NS 6
98TC 3				0.065 (4)+	3 1.4 NS LT
98TC 4				0.073 (2:5)-	4
98TC 5				0.082 (4)+	5 1.4 NS LT
98TC 6				0.091 (2,3)-	6 14.7 US 5
98TC 7				0.106 (7)+	7
98TC 8				0.139 (3)-	8 8.2 NS 3
98TC 9				0.142 (2:7)+	9
98TC 10				0.152 (3,4,5)+	10 1.4 NS LT
98TC 11				0.190 (3,4)-	11 1.4 NS LT
98TC 12				0.204 (4)+	12 1.4 NS LT
98TC 13				0.268 4+,5+	13
98TC 14				0.306 (3,4,5)+	14
98TC 15				0.322 (2,3,4)-	15
98TC 16				0.329 (3,4,5)+	16
98TC 17				0.347 (6,7)+	17
98TC 18				0.351 (3)-	18
98TC 19				0.375 (3,4,5)+	19
98TC 20				0.390 (3)+	20
98TC 21				0.424 4+,5+	21
98TC 22				0.441 (7)+	22
98TC 23				0.447 +	23
98TC 24				0.458 (2,3,4)-	24
98TC 25				0.484 (2:5)-	25
98TC 26				0.502	26
98TC 27				0.538 (2:7)+	27
98TC 28				0.543 (1:5)-	28
98TC 29				0.568 (2:7)(+)	29
98TC 30				0.609 4+,5+	30
98TC 31				0.622 (2,3,4)-	31
98TC 32				0.624 (4+,5+)	32
98TC 33				0.640 (2:7)+	33
98TC 34				0.653	34
98TC 35				0.666 (2,3,4)+	35
98TC 36				0.670	36

98TC 37				0.688	(4,5)+	37
98TC 38				0.707	4+,5+	38
98TC 39				0.714	(4,5)+	39
98TC 40				0.747	4+,5+	40
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98TC 41				0.764	(8)+	41
98TC 42				0.766	(4+,5+)	42
98TC 43				0.799	4+,5+	43
98TC 44				0.863	(2:7)+	44
98TC 45				0.888	4+,5+	45
98TC 46				0.924	(2:7)+	46
98TC 47				0.951	4+,5+	47
98TC 48				0.988		48
98TC 49				1.018	(7,8,9)+	49
98TC 50				1.048	(2:7)+	50
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98TC 51				1.058	+	51
98TC 52				1.091	(8)-	52
98TC 53				1.103	(9)+	53
98TC 54				1.127	(2:7)+	54
98TC 55				1.158	(2:7)+	55
98TC 56				1.166	(9)-	56
98TC 57				1.202	+	57
98TC 58				1.208	(9)+	58
98TC 59				1.212	(2 TO 7)+	59
98TC 60				1.254	4+,5+	60
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98TC 61				1.275	4+,5+	61
98TC 62				1.296	4+,5+	62
98TC 63				1.311	4+,5+	63
98TC 64				1.338	4+,5+	64
98TC 65				1.354	(4,5)+	65
98TC 66				1.373		66
98TC 67				1.388	(2:7)(+)	67
98TC 68				1.400	(2:7)+	68
98TC 69				1.441	(2:7)+	69
98TC 70				1.470	(4,5)+	70
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98TC 71				1.487	(2:7)+	71
98TC 72				1.550	(10+)	72
98TC 73				1.582	(10)-	73
98TC 74				1.851	(11)-	74
98TC 75				1.920	(10-)	75
98TC 76				1.963	(11+)	76
98TC 77				1.996	(11+)	77
98TC 78				2.304	(12)-	78
98TC 79				2.368	(11-)	79
98TC 80				2.482	(12+)	80
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S-alpha=	2.488	(0.004)	-----			

98TC	81				2.671	(12-)	81
98TC	82				2.677	(13)-	82
98TC	83				2.810	(13+)	83
98TC	84				3.055	(13+)	84
98TC	85				3.129	(14-)	85
98TC	86				3.266	(13-)	86
98TC	87				3.724	(15-)	87
S-p	=	6.177	( 0.003)	-----			
S-n	=	7.279	( 0.005)	-----			
98TC	88				9.656	(0+)	88

  

S-p	=	6.177	( 0.003)	-----			
S-n	=	7.279	( 0.005)	-----			
S-2p	=	15.407	( 0.003)	-----			
S-2n	=	16.753	( 0.006)	-----			
S-alpha	=	2.488	( 0.004)	-----			

  

S+p	=	-8.482	( 0.003)				
S+n	=	-8.967	( 0.004)				
S+2p	=	-13.737	( 0.018)				
S+2n	=	-15.731	( 0.004)				
S+alpha	=	-2.776	( 0.007)				

  

gap p	=	-2.306	( 0.005)				
gap n	=	-1.688	( 0.006)				
gap 2p	=	1.671	( 0.019)				
gap 2n	=	1.022	( 0.007)				
gap alpha	=	-0.288	( 0.008)				