

Table 17.5 from (1993TI07): Beta decay of ^{17}N ^a

Decay to $^{17}\text{O}^*(\text{keV})$	J^π	Branch(%)	$\log ft$
0	$\frac{5}{2}^+$	1.6 ± 0.5	7.29 ± 0.11 ^f
871	$\frac{1}{2}^+$	3.0 ± 0.5	6.80 ± 0.07
3055.2 ± 0.3 ^b	$\frac{1}{2}^-$	0.34 ± 0.06	7.08 ± 0.08
3841	$\frac{5}{2}^-$	$< 7 \times 10^{-3}$	> 8.5
4551.2 ± 1.3 ^c	$\frac{3}{2}^-$	38.0 ± 1.3 ^e	4.41 ± 0.02
5083 ± 21 ^c	$\frac{3}{2}^+$	0.6 ± 0.4	5.9 ± 0.5
5389.0 ± 1.2 ^{c, d}	$\frac{3}{2}^-$	50.1 ± 1.3 ^e	3.86 ± 0.02
5738	$(\frac{1}{2}^+)$	< 0.23	> 6.0
5868	$\frac{3}{2}^+$	< 0.15	> 6.0
5951.8 ± 1.9 ^{c, d}	$\frac{1}{2}^-$	6.9 ± 0.5 ^e	4.35 ± 0.03
6356	$\frac{1}{2}^+$	< 0.08	> 6.0

^a See [Table 17.3 in \(1986AJ04\)](#) and [Table 17.2 in \(1982AJ01\)](#) for references and additional information.

^b Direct ground state decay $< 1.5\%$.

^c From neutron groups. [The E_x were calculated on the basis of 4144.3 ± 0.8 keV for E_b for a neutron in ^{17}O .] Γ_n for $^{17}\text{O}^*(4.55, 5.08, 5.38, 5.94)$ are, respectively, 54.8 ± 0.4 , 113 ± 55 , 63.2 ± 1.1 and 60.5 ± 3.2 keV. See also [Table 17.17](#).

^d See, however, [Tables 17.17](#) and [17.10](#).

^e Calculated to lead to a total neutron emission probability of $(95 \pm 1)\%$ [100% less the branches to $^{17}\text{O}^*(0, 0.87, 3.06)$].

^f $\log f_1 t = 9.56 \pm 0.13$ ([1971TO08](#)).