

Table 13.12 from (1986AJ01):
Electromagnetic transitions ^a in ¹³C from ¹³C(e, e')¹³C

E_x (MeV \pm keV)	J^π	Mult.	Γ_{γ_0} (eV)	$\Gamma_{\gamma_0}/\Gamma_W$ (W.u.)
3.08 \pm 30 ^b	$\frac{1}{2}^+$	C1	0.68 \pm 0.23	0.062
3.69 \pm 20	$\frac{3}{2}^-$	C2	$(3.61 \pm 0.40) \times 10^{-3}$	3.52
		M1	0.358 \pm 0.047	0.339
6.85 \pm 60	$\frac{5}{2}^+$	M2	$(6.9 \pm 3.6) \times 10^{-5}$	0.055
7.54 \pm 20	$\frac{5}{2}^-$	M3	(1.01×10^{-5})	(35)
		C2	0.115 \pm 0.007 ^d	3.15
8.86 \pm 20 ^c	$\frac{1}{2}^-$	M1	3.36 \pm 0.47 ^e	0.230
		E0	2.09 ^f	
9.50 ^b	$\frac{9}{2}^+$			
9.90 \pm 30	$\frac{3}{2}^-$	C2	$(6.3 \pm 1.1) \times 10^{-3}$	0.045
		M1	0.324 \pm 0.038	0.0159
11.07 \pm 20	$\frac{1}{2}^-$	M1	1.02 \pm 0.12	0.0359
		E0	2.62 ^f	
	$\frac{3}{2}^-$	C2	0.256 \pm 0.047	1.03
		M1	0.172 \pm 0.020	0.006
15.11 \pm 20	$\frac{3}{2}^-$	C2	0.6 \pm 0.1	0.50
		M1	22.4 \pm 1.5	0.31
16.1 ^b				

^a For references see Table 13.15 in (1981AJ01). See also (1984MO1D) and Tables 13.4 and 13.5.

^b See (1984HIZX, 1985HI04).

^c $\Gamma = 190 \pm 35$ keV.

^d 0.11 ± 0.015 eV (1980HO11; ¹³C(γ , n)).

^e 5.4 ± 0.5 eV (1980HO11); Γ_{γ_0} for ¹³C*(7.69, 8.2) are reported to be 0.6 ± 0.1 and 7.0 ± 0.9 eV, respectively (1980HO11).

^f Monopole matrix element in fm².