

Table 15.12 from (1991AJ01): Gamma radiation from  $^{14}\text{N}(n, \gamma)$  <sup>a</sup>

Transition in $^{15}\text{N}$	$E_\gamma$ <sup>b</sup> (keV)	$E_x$ <sup>b</sup> (keV)	$I_\gamma$ <sup>c</sup>
C → 0	10829.087 (46)	10833.302 (12)	13.65 (21)
C → 5.27	5562.062 (17)		10.65 (12)
C → 5.30	5533.379 (13)		19.75 (21)
C → 6.32	4508.783 (14)		16.54 (17)
C → 7.16	3677.772 (17)		14.89 (15)
C → 7.30	3532.013 (13)		9.24 (9)
C → 8.31	2520.418 (15)		5.79 (7)
C → 9.05			<sup>a</sup>
C → 9.152	1681.117 (171)		1.54 (15)
C → 9.155	1678.174 (55)		7.23 (18)
5.27 → 0	5269.169 (12)	5270.155 (10)	30.03 (20)
5.30 → 0	5297.817 (15)	5298.822 (11)	21.31 (18)
6.32 → 0	6322.337 (14)	6323.775 (15)	18.67 (14)
7.16 → 0		7155.051 (16)	
7.16 → 5.27	1884.879 (21)		18.66 (25)
7.16 → 5.30			0.8 (2)
7.30 → 0	7298.914 (33)	7300.832 (16)	9.73 (9)
7.30 → 5.30			<sup>a</sup>
8.31 → 0	8310.143 (29)	8312.620 (25)	4.22 (5)
8.31 → 5.30	3013.494 (73)		0.69 (2)
8.31 → 6.32	1988.507 (239)		0.37 (9)
8.57 → 0	8568.920 (230)	8571.412 (120)	0.073 (4)
8.57 → 5.27	3300.728 (113)		0.16 (2)
9.05 → 0	9046.802 (69)	9049.713 (69)	0.186 (5)
9.152 → 0	9149.222 (47)	9151.895 (120)	1.62 (2)
9.155 → 0		9154.895 (23)	
9.155 → 5.27	3884.184 (39)		0.57 (2)
9.155 → 5.30	3855.579 (45)		0.70 (1)
9.155 → 6.32	2830.809 (70)		1.75 (3)
9.155 → 7.16	1999.708 (86)		3.99 (9)

Table 15.12 from (1991AJ01): Gamma radiation from  $^{14}\text{N}(n, \gamma)$  <sup>a</sup> (continued)

Transition in $^{15}\text{N}$	$E_\gamma$ <sup>b</sup> (keV)	$E_x$ <sup>b</sup> (keV)	$I_\gamma$ <sup>c</sup>
9.222 $\rightarrow$ 0	9219.022 (763)	9222.06 (76)	0.024 (5)
9.925 $\rightarrow$ 0	9921.511 (166)	9925.033 (166)	0.127 (4)
10.066 $\rightarrow$ 0	10062.345 (197)	10065.969 (197)	0.062 (4)

C = capturing state.

<sup>a</sup> See also [Tables 15.13 in \(1981AJ01, 1986AJ01\)](#) for earlier references, comments and reports. The previously reported transition to  $^{15}\text{N}^*(9.76)$  has not been confirmed:  $I_\gamma < 0.01\%$  (T.J. Kennett, private communication). ([1990WA22](#)) [see [footnote <sup>b</sup> in Table 15.4](#)] recommends different values for  $E_\gamma$  and  $E_x$ .

<sup>b</sup> Error in  $Q_m$  not included. Adjustments due to it require the addition in quadrature of the  $Q_m$  error: see ([1986KE14](#)).

<sup>c</sup> In units of photons/100 captures ([1986KE14](#)): errors are statistical only but these are predominant.