$^{14}_{6}\mathrm{C}_{8}$

1 Decay Scheme

C-14 disintegrates 100 % by beta-minus transition to the ground state of the stable nuclide N-14.
Le carbone 14 se désintègre exclusivement par émission bêta moins vers le niveau fondamental d'azote 14.

2 Nuclear Data

$T_{1/2}(^{14}\mathrm{C}\ )$: 5700 (30) a
$Q^{-}(^{14}\mathrm{C}\ )$: 156,476 (4) keV

2.1 β^{-} Transitions

	Energy keV	Probability × 100	Nature	lg ft
$\beta^{-}_{0,0}$	156,476 (4)	100	Allowed	9,04

3 Electron Emissions

		Energy keV	Electrons per 100 disint.
$\beta^{-}_{0,0}$	max:	156,476 (4)	100
$\beta^{-}_{0,0}$	avg:	49,16 (1)	

4 Main Production Modes

$\left\{\begin{array}{l} \mathrm{N-14(n,p)C-14} \\ \text{Possible impurities : none} \end{array}\right.$

5 References

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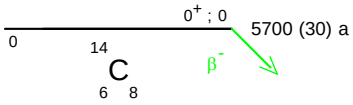
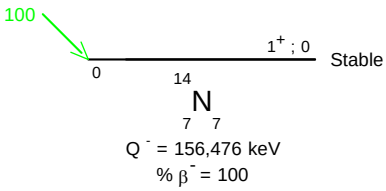
  (Mean beta energy)


0+ ; 0
5700 (30) a
0
14
C
6 8
β-


100
1+ ; 0
Stable
0
14
N
7 7
Q - = 156,476 keV
% β- = 100