^{96}Tc IT decay (51.5 min) 1976Bi13,1969Ag05,1950Me21

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni	NDS 109, 2501 (2008)	1-Apr-2008

Parent: ^{96}Tc: E=34.20 *5*; $J^{\pi}=4^+$; $T_{1/2}$=51.5 min *10*; %IT decay=98.0 *5*

^{96}Tc Levels

E(level)	J^{π} †	$T_{1/2}$ †	Comments
0	7^+	4.28 d *7*	
34.20 *5*	4^+	51.5 min *10*	%IT=98.0 *5*; $\%\varepsilon+\%\beta^+$=2.0 *5*

† Adopted values.

γ(^{96}Tc)

Iγ normalization: From α=3797 *59*.

E_i(level)	J_i^{π}	E_γ †	I_γ #	E_f	J_f^{π}	Mult.‡	α@	Comments
34.20	4^+	34.20 *5*	0.0264 *4*	0	7^+	M3	3.79×10^3	α(K)=1.69×10^3 *3*; α(L)=1.69×10^3 *3*; α(M)=347 *6*; α(N)=51.8 *9*; α(O)=1.513 *25*; α(N+..)=53.3 *9* Mult.: α(K)exp=1880 *145* (1988Ch32); α(K)exp/α(L)exp=1.2 *3* (1950Me21); α(L3)exp/α(L1)exp=1.46 *15* (1969Ag05).

† From 1976Bi13.
‡ From α(L3)exp/α(L1)exp.
# For absolute intensity per 100 decays, multiply by 0.980 *5*.
@ Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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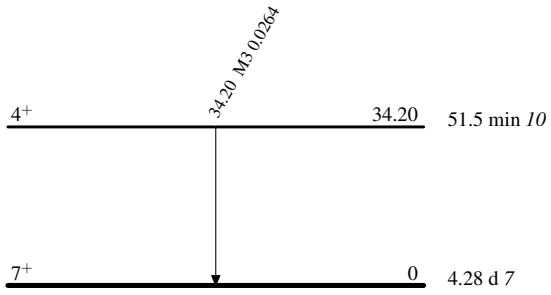
Decay Scheme

Intensities: % photon branching from each level
%IT=98.0 *5*



$^{96}_{43}Tc_{53}$