^{93}Y IT decay

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	Coral M. Baglin	NDS 112, 1163 (2011)	15-Dec-2010

Parent: ^{93}Y: E=758.723 *19*; J$^\pi$=(9/2)$^+$; T$_{1/2}$=0.82 s *4*; %IT decay=100.0
1979Bo26, 1975Ca01, 1974Sc39.

^{93}Y Levels

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$	Comments
0.	1/2$^-$		
590.240 *23*	(3/2)$^-$		
758.739 *24*	(9/2)$^+$	0.82 s *4*	T$_{1/2}$: from 168γ(t) and 590γ(t) (1975Ca01). Others: 1.7 s *5* (1974Sc39), 0.085 s *15* (1974Ac04).

[†] From Eγ.
[‡] From Adopted Levels.

γ(^{93}Y)

Iγ normalization: From %IT=100, assuming α(168γ)=0.952.

E$_\gamma$[†]	I$_\gamma$[‡]	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$	Mult.[†]	α[#]	I$_{(\gamma+ce)}$[‡]	Comments
168.499 *4*	51.23	758.739	(9/2)$^+$	590.240	(3/2)$^-$	E3	0.952	100	ce(K)/(γ+ce)=0.387 *4*; ce(L)/(γ+ce)=0.0845 *13*; ce(M)/(γ+ce)=0.01471 *23*; ce(N+)/(γ+ce)=0.00185 *3* ce(N)/(γ+ce)=0.00179 *3*; ce(O)/(γ+ce)=5.86×10^{-5} *10*
590.238 *23*	99.80	590.240	(3/2)$^-$	0.	1/2$^-$	M1		100	ce(K)/(γ+ce)=0.001739 *25*; ce(L)/(γ+ce)=0.000191 *3*; ce(M)/(γ+ce)=3.26×10^{-5} *5*; ce(N+)/(γ+ce)=4.70×10^{-6} *7* ce(N)/(γ+ce)=4.40×10^{-6} *7*; ce(O)/(γ+ce)=3.08×10^{-7} *5*

[†] From Adopted Gammas.
[‡] Absolute intensity per 100 decays.
[#] 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.

^{93}Y IT decay

Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=100.0

Legend

$I_\gamma < \ 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$

168.499 E3 102

590.238 M1 102

$(9/2)^+$ 758.739   0.82 s 4

$(3/2)^-$ 590.240

$1/2^-$ 0.

$^{93}_{39}Y_{54}$