

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. Browne	NDS 93,846 (2001)	1-May-2001

$Q(\beta^-)=3038$  16;  $S(n)=5596$  22;  $S(p)=6.35\times 10^3$  5;  $Q(\alpha)=4.72\times 10^3$  *syst* [2012Wa38](#)

Note: Current evaluation has used the following Q record 3300 SY5300 SY6760 SY4540 *syst* [1995Au04](#).

$S(p), Q(\alpha)$ : from [1997Mo25](#).

[Additional information 1](#).

$^{223}\text{At}$  activity was produced by spallation of 600-MeV photons on targets of  $^{232}\text{Th}$ . Assignment to  $^{223}\text{At}$  is based on mass separation. The disintegration rate was determined by measuring the  $\beta^-$  activity with a  $4\pi$  plastic scintillator detector ([1989Bu09](#)).

 $^{223}\text{At}$  Levels

E(level)	$T_{1/2}$	Comments
0.0	50 s 7	$\% \beta^- = 100$ $T_{1/2}$ : from <a href="#">1989Bu09</a> . $\% \alpha \approx 0.008$ , estimated by evaluator from systematics of $T_{1/2}(\alpha)$ in $^{213}\text{At}$ , $^{215}\text{At}$ , $^{217}\text{At}$ , and $^{219}\text{At}$ . Alpha particles were not seen.