

^{257}Md ϵ decay [1993Mo18](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1041 (2013)	1-Mar-2012

Parent: ^{257}Md : $E=0.0$; $J^\pi=(7/2^-)$; $T_{1/2}=5.52$ h 5; $Q(\epsilon)=407$ 6; $\% \epsilon$ decay=85 3

[Additional information 1.](#)

[1993Mo18](#): $^{254}\text{Es}+^{18}\text{O}$ $E=105$ MeV, $^{254}\text{Es}+^{22}\text{Ne}$ $E=126$ MeV, ms; measured α , K x ray, SF, $T_{1/2}$.

K x ray(Fm)/7074 $\alpha(^{257}\text{Md})=2.81$ 6 (K α_2 x ray=0.91 4, K α_1 x ray=1.26 3, K β x ray=0.64 4); no γ rays observed ([1993Mo18](#)).

This measurement of K x ray intensity gives I(K x ray)=0.527 11 per ϵ decay. From level scheme, with 100% ϵ to g.s., I(K x ray)=0.597 4 per ϵ decay (evaluator).

 ^{257}Fm Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(9/2 ⁺)	100.5 d 2	$T_{1/2}$: From Adopted Levels.

 ϵ radiations

E(decay)	E(level)	$I\epsilon^\dagger$	Log ft	Comments
(407 6)	0.0	≤ 100	≥ 5.4	$\epsilon\text{K}=0.609$ 4; $\epsilon\text{L}=0.279$ 3; $\epsilon\text{M}+=0.1113$ 14

[†] Absolute intensity per 100 decays.