

^{259}Rf α decay 1976SiZS

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1041 (2013)	1-Nov-2011

Parent: ^{259}Rf : E=0.0; $T_{1/2}$ =2.4 s 4; $Q(\alpha)$ =9130 71; % α decay=92 2

[Additional information 1.](#)

[1997Ho13](#): $^{208}\text{Pb}(^{64}\text{Ni},n)^{271}(110)$ α decay.

[1994Gr08](#): $^{249}\text{Cf}(^{18}\text{O},4n)^{263}\text{Sg}$ α decay.

[1981Be03](#): $^{249}\text{Cf}(^{13}\text{C},3n)$, E=86.5 MeV; measured α , SF, $T_{1/2}$.

[1969Gh01](#): $^{249}\text{Cf}(^{13}\text{C},3n)$, $^{248}\text{Cm}(^{16}\text{O},5n)$. Measured α .

 ^{255}No Levels

E(level)	Comments
0+x	E(level): x=121 74 from $Q(\alpha)$ =9130 71 (systematics, 2011AuZZ) and measured $E\alpha$.
101+x 30	E(level): from $E\alpha$ difference. ΔE does not include uncertainty in X.

 α radiations

$E\alpha^{\ddagger}$	E(level)	$I\alpha^{\#}$	HF †
8770 20	101+x	≈ 60	≈ 3
8870 20	0+x	≈ 40	≈ 9

† $r_0(^{255}\text{No})=1.471$ 15.

‡ From [1981Be03](#). Other [1969Gh01](#).

$^{\#}$ For absolute intensity per 100 decays, multiply by 0.92 2.