

^{263}Sg α decay [1974Gh04](#)

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

Parent: ^{263}Sg : $E=0.0$; $T_{1/2}=1.0$ s 2; $Q(\alpha)=9403$ SY; % α decay \approx 30.0

[Additional information 1.](#)

[1974Gh04](#): $^{249}\text{Cf}(^{18}\text{O},4n)$, established ^{263}Db α ^{259}Rf α ^{255}No decay sequence ([1974Gh04](#)).

Others: [1997Ho03](#) (from $^{208}\text{Pb}(^{62}\text{Ni},n)^{271}\text{110}$); [1995Og02](#) (from $^{238}\text{U}(^{34}\text{S},5n)^{267}\text{Hs}$).

 ^{259}Rf Levels

E(level)	Comments
0.0+x	E(level): X=10 from $Q(\alpha)=9403$ (systematics, 2012Wa38) and $E\alpha$.
203+x 40	ΔE given does not include the estimated ΔE in X.

 α radiations

$E\alpha^{\ddagger}$	E(level)	$I\alpha^{\#\#}$	HF †
9060 40	203+x	\approx 90	\approx 2
9250 40	0.0+x	\approx 10	\approx 75

† $r_0(^{259}\text{Rf})=1.465$ 20.

‡ From [1974Gh04](#).

$\#$ For absolute intensity per 100 decays, multiply by \approx 0.3.