$^{241}\mathbf{Cf}\,\alpha$ decay 1970Si19

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 107, 2323 (2006)	15-Mar-2006

Parent: ²⁴¹Cf: E=0.0; T_{1/2}=3.78 min 70; Q(α)=7660 SY; % α decay=25.0 ²⁴¹Cf was produced bombarding 97% enriched ²³⁴U with 62-93 MeV (degraded from 118-MeV initial beam energy) ¹²C beam.

²³⁷Cm Levels

E(level)	
(0.0)	
≈194	

194

 α radiations

Eα	E(level)	Comments
7342 5	≈194	 Eα: measurement of 1970Si19 (semi). The original energy of 7335 is increased by the evaluator by 7 keV, because of changes in calibration energies, as recommended in 1991Ry01, from Eα(²¹⁴Po)=7680 to 7686.82 7, and from Eα(²¹⁷Rn)=7735 to 7741.3 28. Other measurement: 1967Fi04. Iα: only one group was observed. Analogy to ²³⁵U α decay suggests that the 7342-keV α and any α populating the expected 9/2 member of the 7/2[743] band should have relative intensities of 86/14 with HF's of 2.0/3.6. HF=2.0 15, if Iα=76 6, %α=25 5 (r₀(²³⁷Cm)=1.505 15 is used in calculations).