

$^{80}\text{Se}(n,\gamma)$ E=res 1981En07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 199,271 (2025)	1-Sep-2024

E(n)=1.970 keV, Ge(Li) (FWHM=7 keV at 8.5 MeV), tof, natural target; measured E γ , I γ .

 ^{81}Se Levels

E(level) [†]	J π [#]	Comments
0	1/2 ⁻	
467.9 11	3/2 ⁻	
1724.9 5	(3/2) ⁺	
6702.8 [‡] 3	(3/2) ⁺	E _{res} =1.97 keV (1970 eV in 1981En07). J π : from 1981En07.

[†] From E(capture state) and E γ .

[‡] From S(n)=6700.8 3 (2021Wa16) + E(res, c.m.).

[#] From Adopted Levels, except as noted.

 $\gamma(^{81}\text{Se})$

E γ [†]	I γ ^{‡#}	E _i (level)	J π _i	E _f	J π _f
4977.9 4	4.4 3	6702.8	(3/2 ⁺)	1724.9	(3/2) ⁺
6234.9 11	37.2 24	6702.8	(3/2 ⁺)	467.9	3/2 ⁻

[†] From E γ (thermal capture, 1981En07) + E(res, c.m.).

[‡] Absolute intensities, calibrated against I γ from the 27.1-eV resonance of ^{74}Se (determined relative to I γ for 4.91-eV resonance in ^{197}Au). The uncertainties shown are statistical; an additional 30% systematic uncertainty associated with these data has not been included here.

[#] Intensity per 100 neutron captures.

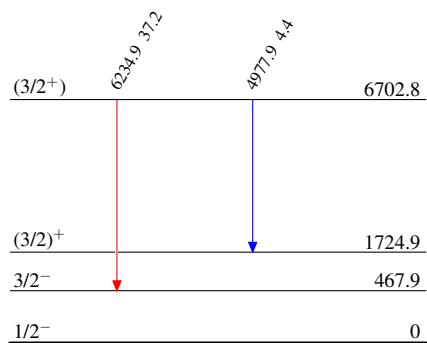
$^{80}\text{Se}(n,\gamma) \text{E=res}$ 1981En07

Level Scheme

Intensities: I_γ per 100 N captures

Legend

- \longrightarrow $I_\gamma < 2\% \times I_\gamma^{max}$
- \longrightarrow $I_\gamma < 10\% \times I_\gamma^{max}$
- \longrightarrow $I_\gamma > 10\% \times I_\gamma^{max}$

 $^{81}_{34}\text{Se}_{47}$