

$^{77}\text{Se}(\text{d,t})$  1965Li08

| Type            | Author                                       | History | Citation         | Literature Cutoff Date |
|-----------------|--|---------|------------------|------------------------|
| Full Evaluation | Balraj Singh, Jun Chen and Ameenah R. Farhan |         | NDS 194,3 (2024) | 8-Jan-2024             |

E=15 MeV.

$J^\pi(^{77}\text{Se g.s.})=1/2^-$ .

Others:

[1987OgZY](#): (pol d,t),E=56 MeV. Measured  $\sigma(\theta)$  from  $6^\circ$  to  $40^\circ$  (lab) in  $3^\circ$  steps. The displayed triton spectrum contains many groups in  $^{76}\text{Se}$  above 4 MeV, but the details of this work are not yet available.

[1960Co10](#) (same group as [1965Li08](#)).

 $^{76}\text{Se}$  Levels

| E(level) <sup>†</sup> | $d\sigma/d\Omega$ $\mu\text{b}/\text{sr}$ <sup>‡</sup> | Comments  |
|-----------------------|--|---|
| 0                     | 0.57   |   |
| 550                   | 0.55   |   |
| 1122 <sup>#</sup>     |  |   |
| 1210                  | 0.49   | At $6^\circ$ (lab) this group is the most intense below 3 MeV excitation (Fig. 1 in <a href="#">1987OgZY</a> ). |
| 1331 <sup>#</sup>     |  |   |
| 1689 <sup>#</sup>     |  |   |
| 1800                  | 0.17   |   |
| 2026 <sup>#</sup>     |  |   |
| 2130                  | 0.20   |   |
| 2570                  | 0.23   |   |
| 2630                  | 0.17   |   |
| 2860                  | 0.29   |   |
| 3000                  | 0.39   |   |

<sup>†</sup> Uncertainty  $\approx 10$  keV based on FWHM $\approx 40$  keV.

<sup>‡</sup> At  $40^\circ$  (lab).

<sup>#</sup> Population of this level indicated in (pol d,t) ([1987OgZY](#)). Energy taken from the Adopted Levels.