

$^{80}\text{Se}(\alpha, p)$ 1973Bu13

| Type | Author | History Citation | Literature Cutoff Date |
|-----------------|-----------------|---------------------|------------------------|
| Full Evaluation | E. A. Mccutchan | NDS 125, 201 (2015) | 31-Dec-2014 |

$E(\alpha)=20.5$ MeV. Measured $\sigma(\theta)$ from 20° to 100° in 5° steps using two Si NE-2A detectors (FWHM=220 keV); DWBA analysis with DWUCK code.

 ^{83}Br Levels

| E(level) | J^π [‡] | L [†] | Comments |
|----------|----------------------|----------------|---|
| 0 70 | $3/2^-$ | 1 | |
| 356 70 | $5/2^-$ | 3 | |
| 680? 70 | | | E(level): Weakly excited; not included in Adopted Levels. |
| 1100 70 | | 1+4 | E(level): Doublet. L: one of the transitions contributing to this doublet has L=1. The other has L=4, or possibly, 3. A somewhat better fit is obtained with L=1+4 versus L=1+3. |
| 1700 70 | $3/2^-$ | 1 | |
| 2080? 70 | | | E(level): Weakly excited. |
| 2450 70 | $9/2^+$ | 4 | |
| 2710 70 | | | E(level): Weakly excited and unresolved from 2450 peak. |
| 3100 70 | | (4) | E(level): Possible doublet with principal component having L=4. |

[†] From angular distribution with DWBA.

[‡] From J dependence of angular distribution.